

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Linda M. Salvatore Examiner #: 7242 Date: 08/08/02  
Art Unit: 171 Phone Number 30 5-4670 Serial Number: 09944635  
Mail Box and Bldg/Room Location: 11B29 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Hot - Melt Adhesive for Nonwoven Elastic Composite  
Inventors (please provide full names): ZHOU & BARRETT, Jr

Earliest Priority Filing Date: 12/29/2000

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

SEE ATTACHED CLAIMS

## STAFF USE ONLY

Searcher: K. Fuller

Searcher Phone #: \_\_\_\_\_

Searcher Location: \_\_\_\_\_

Date Searcher Picked Up: \_\_\_\_\_

Date Completed: 8/13/02Searcher Prep & Review Time: 20

Clerical Prep Time: \_\_\_\_\_

Online Time: 60

## Type of Search

NA Sequence (#) \_\_\_\_\_

AA Sequence (#) \_\_\_\_\_

Structure (#) \_\_\_\_\_

Bibliographic ☒

Litigation \_\_\_\_\_

Fulltext \_\_\_\_\_

Patent Family \_\_\_\_\_

Other \_\_\_\_\_

## Vendors and cost where applicable

STN ☒

Dialog \_\_\_\_\_

Questel/Orbit \_\_\_\_\_

Dr.Link \_\_\_\_\_

Lexis/Nexis \_\_\_\_\_

Sequence Systems \_\_\_\_\_

WWW/Internet \_\_\_\_\_

Other (specify) \_\_\_\_\_

# EIC1700

## Search Results

### Feedback Form (Optional)



Scientific & Technical Information Center

The search results generated for your recent request are attached. If you have any questions or comments (compliments or complaints) about the scope or the results of the search, please contact *the EIC searcher* who conducted the search *or contact*:

Kathleen Fuller, Team Leader, 308-4290, CP3/4 3D62

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#### Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example:

➤ Relevant prior art found, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

*Types of relevant prior art found:*

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art not found:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Search results were not useful in determining patentability or understanding the invention.

Other Comments:

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Drop off completed forms in CP3/4 - 3D62 .

=> FILE HCAPLUS

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FILE COVERS 1907 - 13 Aug 2002 VOL 137 ISS 7

FILE LAST UPDATED: 12 Aug 2002 (20020812/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> D QUE L42

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L2          7 SEA FILE=REGISTRY ABB=ON (1592-20-7/BI OR 355406-89-2/BI OR
          438459-60-0/BI OR 438459-62-2/BI OR 60181-05-7/BI OR 63413-73-0
          /BI OR 86-74-8/BI)
L17         13 SEA FILE=REGISTRY ABB=ON (1592-20-7/BI OR 355406-89-2/BI OR
          438459-60-0/BI OR 438459-62-2/BI OR 60181-05-7/BI OR 63413-73-0
          /BI OR 86-74-8/BI OR 105729-79-1/BI OR 108449-26-9/BI OR
          25085-53-4/BI OR 26835-21-2/BI OR 9003-07-0/BI OR 9003-55-8/BI)

L18         6 SEA FILE=REGISTRY ABB=ON L17 NOT L2
L19         1 SEA FILE=REGISTRY ABB=ON L18 AND ISOTACTIC
L20         1 SEA FILE=REGISTRY ABB=ON L18 AND ATACTIC
L21         4 SEA FILE=REGISTRY ABB=ON L18 NOT (L19 OR L20)
L22        14710 SEA FILE=HCAPLUS ABB=ON L19
L23        80033 SEA FILE=HCAPLUS ABB=ON L20
L24        28700 SEA FILE=HCAPLUS ABB=ON L21
L25        138 SEA FILE=HCAPLUS ABB=ON L22 AND L23 AND (NONWOVEN? OR
          NON(W)WOVEN?)
L26        29 SEA FILE=HCAPLUS ABB=ON L25 AND ADHESIV?
L27        2349 SEA FILE=HCAPLUS ABB=ON ATACTIC(4A)(PP OR POLYPROPYLENE?)
L28        14072 SEA FILE=HCAPLUS ABB=ON ISOTACTIC(4A)(PP OR POLYPROPYLENE?)
L29        641 SEA FILE=HCAPLUS ABB=ON L27 AND L28
L30        16 SEA FILE=HCAPLUS ABB=ON L24 AND L25
L31        32 SEA FILE=HCAPLUS ABB=ON L29 AND L24
L32        48 SEA FILE=HCAPLUS ABB=ON L29 AND ADHESIV?
L33        106 SEA FILE=HCAPLUS ABB=ON L26 OR (L30 OR L31 OR L32)
L34        18 SEA FILE=HCAPLUS ABB=ON L33 AND ABSORB?
L35        4 SEA FILE=HCAPLUS ABB=ON L29 AND (NONWOVEN? OR NON(W)WOVEN?)
L36        11 SEA FILE=HCAPLUS ABB=ON L33 AND COMPOSITE#
L37        68 SEA FILE=HCAPLUS ABB=ON L33 AND LAMINAT?
L38        6 SEA FILE=HCAPLUS ABB=ON L37 AND DISPOS?
L39        10 SEA FILE=HCAPLUS ABB=ON L33 AND DIAPER?

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L40 27 SEA FILE=HCAPLUS ABB=ON (L34 OR L35 OR L36) OR L38 OR L39  
L41 8 SEA FILE=HCAPLUS ABB=ON L33 AND MEDICAL?  
L42 28 SEA FILE=HCAPLUS ABB=ON L40 OR L41

=> FILE WPIX

FILE 'WPIX' ENTERED AT 13:00:44 ON 13 AUG 2002  
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FILE LAST UPDATED: 12 AUG 2002 <20020812/UP>  
MOST RECENT DERWENT UPDATE 200251 <200251/DW>  
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> SLART (Simultaneous Left and Right Truncation) is now  
available in the /ABEX field. An additional search field  
/BIX is also provided which comprises both /BI and /ABEX <<<

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Searches in this field may be affected <<<

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enabled in WPINDEX/WPIDS and WPIX <<<

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GUIDES, PLEASE VISIT:  
[http://www.derwent.com/userguides/dwpi\\_guide.html](http://www.derwent.com/userguides/dwpi_guide.html) <<<

=> D QUE L56

L54 1022 SEA FILE=RAPRA ABB=ON NON-WOVEN+NT/CT  
L56 224 SEA FILE=RAPRA ABB=ON L54 AND ADHESIV?

=> D QUE L52

L27 2349 SEA FILE=HCAPLUS ABB=ON ATACTIC(4A)(PP OR POLYPROPYLENE?)  
L28 14072 SEA FILE=HCAPLUS ABB=ON ISOTACTIC(4A)(PP OR POLYPROPYLENE?)  
L43 160 SEA FILE=WPIX ABB=ON L27 AND L28  
L44 9 SEA FILE=WPIX ABB=ON L43 AND (NONWOVEN? OR NON(W)WOVEN?)  
L45 1 SEA FILE=WPIX ABB=ON L44 AND ABSORB?  
L46 4 SEA FILE=WPIX ABB=ON L44 AND ADHESIV?  
L48 1 SEA FILE=WPIX ABB=ON L43 AND DIAPER?  
L49 11 SEA FILE=WPIX ABB=ON L43 AND ABSORB?  
L50 2 SEA FILE=WPIX ABB=ON L49 AND (MEDICAL? OR PAD#)  
L51 4 SEA FILE=WPIX ABB=ON L49 AND ADHESIV?  
L52 9 SEA FILE=WPIX ABB=ON L45 OR L46 OR L48 OR L50 OR L51

=> FILE RAPRA

FILE 'RAPRA' ENTERED AT 13:01:12 ON 13 AUG 2002  
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FILE LAST UPDATED: 05 AUG 2002 <20020805/UP>

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FILE COVERS 1972 TO DATE

>>> The RAPRA Classification Code is available as a PDF file  
 >>> and may be downloaded free-of-charge from:  
 >>> [http://www.stn-international.de/stndatabases/details/rapra\\_classcodes.pdf](http://www.stn-international.de/stndatabases/details/rapra_classcodes.pdf)

=&gt; D QUE L58

L27 2349 SEA FILE=HCAPLUS ABB=ON ATACTIC(4A) (PP OR POLYPROPYLENE?)  
 L28 14072 SEA FILE=HCAPLUS ABB=ON ISOTACTIC(4A) (PP OR POLYPROPYLENE?)  
 L29 641 SEA FILE=HCAPLUS ABB=ON L27 AND L28  
 L43 160 SEA FILE=WPIX ABB=ON L27 AND L28  
 L53 1 SEA FILE=RAPRA ABB=ON L43 AND (NONWOVEN? OR NON(W)WOVEN?)  
 L54 1022 SEA FILE=RAPRA ABB=ON NON-WOVEN+NT/CT  
 L55 1 SEA FILE=RAPRA ABB=ON L54 AND L29  
 L56 224 SEA FILE=RAPRA ABB=ON L54 AND ADHESIV?  
 L57 7 SEA FILE=RAPRA ABB=ON L56 AND ABSORB?  
 L58 8 SEA FILE=RAPRA ABB=ON L53 OR L55 OR L57

=> DUP REM L42 L52 L58

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 PROCESSING COMPLETED FOR L42  
 PROCESSING COMPLETED FOR L52  
 PROCESSING COMPLETED FOR L58  
 L59 43 DUP REM L42 L52 L58 (2 DUPLICATES REMOVED)

=&gt; D L59 1-43 ALL HITSTR

L59 ANSWER 1 OF 43 HCAPLUS COPYRIGHT 2002 ACS  
 AN 2002:521891 HCAPLUS  
 DN 137:79987  
 TI Hot-melt pressure-sensitive **adhesive** compositions containing  
 polyolefin and crystalline polypropylene having improved bonding strength,  
 laminated structure, and **absorbent** articles thereof  
 IN Zhou, Peiguang *applicant*  
 PA Kimberly-Clark Worldwide, Inc., USA  
 SO PCT Int. Appl., 46 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM C09J123-02  
 CC 38-3 (Plastics Fabrication and Uses)  
 Section cross-reference(s): 63

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002053669	A2	20020711	WO 2001-US48697	20011211
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,				

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PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,  
 UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,  
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,  
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2000-259037P P 20001229  
 US 2001-945240 A 20010831

AB Title compn. comprises 70-90% of amorphous polyalphaolefin including  
 butene-1 copolymer (e.g., RT 2730); and 10-30% of cryst. polypropylene  
 having a degree of crystallinity of at least 40% (e.g., isotactic  
 polypropylene). The **adhesive** compns. show improve dynamic shear  
 strength, dynamic peel strength, as well as static peel strength.

ST polyolefin cryst polypropylene blend hot melt **adhesive**  
**absorbent**

IT **Nonwoven** fabrics  
 Textiles  
 (cellulose-synthetic fiber; manuf. of hot-melt **adhesive**  
 compns. contg. polyolefin and cryst. polypropylene for  
**absorbent** articles)

IT Polyolefin fibers  
 RL: TEM (Technical or engineered material use); THU (Therapeutic use);  
 BIOL (Biological study); USES (Uses)  
 (ethylene, laminates; manuf. of hot-melt **adhesive** compns.  
 contg. polyolefin and cryst. polypropylene for **absorbent**  
 articles)

IT **Adhesives**  
 (hot-melt, pressure-sensitive; manuf. of hot-melt **adhesive**  
 compns. contg. polyolefin and cryst. polypropylene for  
**absorbent** articles)

IT **Medical** goods  
 (incontinence pads; manuf. of hot-melt **adhesive** compns.  
 contg. polyolefin and cryst. polypropylene for **absorbent**  
 articles)

IT Polypropene fibers, uses  
 RL: TEM (Technical or engineered material use); THU (Therapeutic use);  
 BIOL (Biological study); USES (Uses)  
 (laminates; manuf. of hot-melt **adhesive** compns. contg.  
 polyolefin and cryst. polypropylene for **absorbent** articles)

IT **Absorbents**  
**Diapers**  
 Laminated materials  
**Nonwoven** fabrics  
 (manuf. of hot-melt **adhesive** compns. contg. polyolefin and  
 cryst. polypropylene for **absorbent** articles)

IT Polyolefins  
 RL: TEM (Technical or engineered material use); THU (Therapeutic use);  
 BIOL (Biological study); USES (Uses)  
 (manuf. of hot-melt **adhesive** compns. contg. polyolefin and  
 cryst. polypropylene for **absorbent** articles)

IT Clothing  
 (**medical**; manuf. of hot-melt **adhesive** compns.  
 contg. polyolefin and cryst. polypropylene for **absorbent**  
 articles)

IT **Absorbents**  
 (pads, feminine care products; manuf. of hot-melt **adhesive**  
 compns. contg. polyolefin and cryst. polypropylene for  
**absorbent** articles)

IT Clothing  
 (pants, child training; manuf. of hot-melt **adhesive** compns.  
 contg. polyolefin and cryst. polypropylene for **absorbent**

articles)  
 IT Clothing  
   (swimwear; manuf. of hot-melt **adhesive** compns. contg.  
   polyolefin and cryst. polypropylene for **absorbent** articles)  
 IT **Medical** goods  
   (tampons; manuf. of hot-melt **adhesive** compns. contg.  
   polyolefin and cryst. polypropylene for **absorbent** articles)  
 IT Plastics, uses  
   RL: TEM (Technical or engineered material use); THU (Therapeutic use);  
   BIOL (Biological study); USES (Uses)  
   (thermoplastics; manuf. of hot-melt **adhesive** compns. contg.  
   polyolefin and cryst. polypropylene for **absorbent** articles)  
 IT **Medical** goods  
   (wearing apparel; manuf. of hot-melt **adhesive** compns. contg.  
   polyolefin and cryst. polypropylene for **absorbent** articles)  
 IT 9003-07-0, Polypropylene 25085-53-4, Isotactic  
   Polypropylene  
   RL: TEM (Technical or engineered material use); THU (Therapeutic use);  
   BIOL (Biological study); USES (Uses)  
   (cryst.; manuf. of hot-melt **adhesive** compns. contg.  
   polyolefin and cryst. polypropylene for **absorbent** articles)  
 IT 9010-79-1, Ethylene-propylene copolymer 25087-34-7, 1-Butene-ethylene  
   copolymer 25895-47-0, Rextac 2730 26063-22-9, Syndiotactic  
   Polypropylene 29160-13-2, 1-Butene-propylene copolymer  
   RL: TEM (Technical or engineered material use); THU (Therapeutic use);  
   BIOL (Biological study); USES (Uses)  
   (manuf. of hot-melt **adhesive** compns. contg. polyolefin and  
   cryst. polypropylene for **absorbent** articles)  
 IT 9003-07-0, Polypropylene 25085-53-4, Isotactic  
   Polypropylene  
   RL: TEM (Technical or engineered material use); THU (Therapeutic use);  
   BIOL (Biological study); USES (Uses)  
   (cryst.; manuf. of hot-melt **adhesive** compns. contg.  
   polyolefin and cryst. polypropylene for **absorbent** articles)  
 RN 9003-07-0 HCAPLUS  
 CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)  
  
 CM 1  
  
 CRN 115-07-1  
 CMF C3 H6



RN 25085-53-4 HCAPLUS  
 CN 1-Propene, homopolymer, isotactic (9CI) (CA INDEX NAME)  
  
 CM 1  
  
 CRN 115-07-1  
 CMF C3 H6



AN 2002:521890 HCAPLUS  
 DN 137:79986  
 TI Manufacture of hot-melt **adhesive** based on blend of amorphous and crystalline polypropylene for multilayer **disposable absorbent** products  
 IN Zhou, Peiquang; Blenke, Timothy James  
 PA Kimberly-Clark Worldwide, Inc., USA  
 SO PCT Int. Appl., 60 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM C09J123-00  
 CC 38-3 (Plastics Fabrication and Uses)  
 Section cross-reference(s): 40, 63  
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002053668	A2	20020711	WO 2001-US48241	20011211
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2000-259037P	P	20001229		
	US 2001-945239	A	20010831		
AB	Title <b>adhesive</b> compn. comprises: an atactic polymer having a degree of crystallinity of less than about 20% and a no.-av. mol. wt. between about 1,000 and about 300,000; and an isotactic polymer having a degree of crystallinity of at least about 40% and a no.-av. mol. wt. between about 3,000 and about 200,000. Thus, an <b>isotactic polypropylene</b> 1.5 kg was blended with an <b>atactic polypropylene</b> 4.5 kg to prep. an <b>adhesive</b> compn. having excellent performance properties such as bond strength.				
ST	amorphous cryst polypropylene blend hot melt <b>adhesive disposable absorbent</b>				
IT	Polyolefins				
	RL: TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)				
	(atactic polymers; manuf. of hot-melt <b>adhesive</b> based on blend of amorphous and cryst. polypropylene for <b>absorbents</b> )				
IT	Textiles				
	(cellulosic, <b>lamine</b> parts; manuf. of hot-melt <b>adhesive</b> based on blend of amorphous and cryst. polypropylene for <b>absorbents</b> )				
IT	<b>Adhesives</b>				
	(hot-melt; manuf. of hot-melt <b>adhesive</b> based on blend of amorphous and cryst. polypropylene for <b>absorbents</b> )				
IT	<b>Medical goods</b>				
	(incontinence pads; manuf. of hot-melt <b>adhesive</b> based on blend of amorphous and cryst. polypropylene for <b>absorbents</b> )				
IT	<b>Nonwoven fabrics</b>				
	Textiles				
	(lamine parts; manuf. of hot-melt <b>adhesive</b> based on blend of amorphous and cryst. polypropylene for <b>absorbents</b> )				
IT	Polypropene fibers, uses				



Rubber, uses  
RL: TEM (Technical or engineered material use); THU (Therapeutic use);  
BIOL (Biological study); USES (Uses)  
(laminate parts; manuf. of hot-melt **adhesive** based  
on blend of amorphous and cryst. polypropylene for **absorbents**  
)  
IT **Absorbents**  
Antioxidants  
Disposable diapers  
Dyes  
Fillers  
Laminated materials  
Pigments, nonbiological  
Polymer blend compatibilizers  
Tackifiers  
(manuf. of hot-melt **adhesive** based on blend of amorphous and  
cryst. polypropylene for **absorbents**)  
IT Plastics, uses  
RL: TEM (Technical or engineered material use); THU (Therapeutic use);  
BIOL (Biological study); USES (Uses)  
(thermoplastics, **laminate** parts; manuf. of hot-melt  
**adhesive** based on blend of amorphous and cryst. polypropylene  
for **absorbents**)  
IT 9003-28-5, Polybutene 9003-29-6, Polybutene 9003-53-6, Polystyrene  
25036-29-7, Isotactic Polybutene 25086-18-4, Isotactic Polystyrene  
RL: TEM (Technical or engineered material use); THU (Therapeutic use);  
BIOL (Biological study); USES (Uses)  
(atactic; manuf. of hot-melt **adhesive** based on blend of  
amorphous and cryst. polypropylene for **absorbents**)  
IT 9002-88-4, LDPE  
RL: TEM (Technical or engineered material use); THU (Therapeutic use);  
BIOL (Biological study); USES (Uses)  
(low and high d.; manuf. of hot-melt **adhesive** based on blend  
of amorphous and cryst. polypropylene for **absorbents**)  
IT 9003-07-0, Atactic polypropylene  
25085-53-4, Isotactic polypropylene  
RL: PRP (Properties); TEM (Technical or engineered material use); THU  
(Therapeutic use); BIOL (Biological study); USES (Uses)  
(manuf. of hot-melt **adhesive** based on blend of amorphous and  
cryst. polypropylene for **absorbents**)  
IT 9003-07-0, Atactic polypropylene  
25085-53-4, Isotactic polypropylene  
RL: PRP (Properties); TEM (Technical or engineered material use); THU  
(Therapeutic use); BIOL (Biological study); USES (Uses)  
(manuf. of hot-melt **adhesive** based on blend of amorphous and  
cryst. polypropylene for **absorbents**)  
RN 9003-07-0 HCAPLUS  
CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)  
  
CM 1  
  
CRN 115-07-1  
CMF C3 H6

H<sub>3</sub>C-CH=CH<sub>2</sub>

RN 25085-53-4 HCAPLUS  
CN 1-Propene, homopolymer, isotactic (9CI) (CA INDEX NAME)

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CM 1

CRN 115-07-1  
CMF C3 H6

H3C-CH=CH2

L59 ANSWER 3 OF 43 HCAPLUS COPYRIGHT 2002 ACS  
AN 2002:521640 HCAPLUS  
DN 137:79978  
TI Hot-melt **adhesive** for **nonwoven** elastic  
**composite** for disposable **absorbent** article  
IN Zhou, Peiguang; Garrett, Lance J., Jr.  
PA Kimberly-Clark Worldwide, Inc., USA  
SO PCT Int. Appl., 51 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
IC ICM B32B027-32  
ICS C09J123-02  
CC 38-3 (Plastics Fabrication and Uses)  
FAN.CNT 4

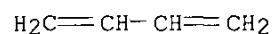
*applicants*

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002053378	A2	20020711	WO 2001-US48367	20011211
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2000-259037P	P	20001229		
	US 2001-944635	A	20010831		
AB	Hot-melt <b>adhesive</b> compns. of <b>atactic</b> <b>polypropylene</b> and <b>isotactic polypropylene</b> are particularly suitable for bonding <b>nonwoven</b> elastic <b>composite</b> from a <b>nonwoven</b> substrate (polypropylene fibers) and .gtoreq.1 of an elastic strand (Lycra 940). A selected amt. of <b>isotactic polypropylene</b> is blended with a selected amt. of <b>atactic polypropylene</b> to prep. an <b>adhesive</b> compn. having .gtoreq.1 performance properties (e.g., bond strength) that are superior to the performance properties of conventional hot-melt <b>adhesives</b> .				
ST	hot met <b>adhesive isotactic polypropylene</b> blend; <b>atactic polypropylene</b> blend <b>adhesive</b> disposable <b>diaper</b> ; disposable <b>absorbent</b> article binder; polyurethane fiber polypropylene <b>nonwoven</b> textile binder				
IT	Polyolefin fibers Synthetic polymeric fibers, uses RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (butadiene-ethylene-styrene; hot-melt <b>adhesive</b> for <b>nonwoven</b> elastic <b>composite</b> for disposable				

- absorbent article)**
- IT Synthetic polymeric fibers, uses  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES  
 (Uses)  
 (butadiene-styrene; hot-melt **adhesive** for **nonwoven**  
 elastic **composite** for disposable **absorbent** article)
- IT Polyolefin fibers  
 Polypropene fibers, uses  
 Synthetic polymeric fibers, uses  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES  
 (Uses)  
 (ethylene-propene-styrene, graft; hot-melt **adhesive** for  
**nonwoven** elastic **composite** for disposable  
**absorbent** article)
- IT Disposable **diapers**  
 Nonwoven fabrics  
 (hot-melt **adhesive** for **nonwoven** elastic  
**composite** for disposable **absorbent** article)
- IT Polypropene fibers, uses  
 Spandex fibers  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES  
 (Uses)  
 (hot-melt **adhesive** for **nonwoven** elastic  
**composite** for disposable **absorbent** article)
- IT **Adhesives**  
 (hot-melt; hot-melt **adhesive** for **nonwoven** elastic  
**composite** for disposable **absorbent** article)
- IT Synthetic polymeric fibers, uses  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES  
 (Uses)  
 (isoprene-styrene, block; hot-melt **adhesive** for  
**nonwoven** elastic **composite** for disposable  
**absorbent** article)
- IT 9003-55-8, Butadiene-styrene copolymer 26835-21-2,  
 Butadiene-ethylene-styrene copolymer 105729-79-1,  
 Isoprene-styrene block copolymer 108449-26-9,  
 Ethylene-propene-styrene graft copolymer  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES  
 (Uses)  
 (fibers; hot-melt **adhesive** for **nonwoven** elastic  
**composite** for disposable **absorbent** article)
- IT 9003-07-0, Atactic polypropylene  
 25085-53-4, Isotactic polypropylene  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material  
 use); USES (Uses)  
 (hot-melt **adhesive** for **nonwoven** elastic  
**composite** for disposable **absorbent** article)
- IT 9003-55-8, Butadiene-styrene copolymer 26835-21-2,  
 Butadiene-ethylene-styrene copolymer 105729-79-1,  
 Isoprene-styrene block copolymer 108449-26-9,  
 Ethylene-propene-styrene graft copolymer  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES  
 (Uses)  
 (fibers; hot-melt **adhesive** for **nonwoven** elastic  
**composite** for disposable **absorbent** article)
- RN 9003-55-8 HCAPLUS
- CN Benzene, ethenyl-, polymer with 1,3-butadiene (9CI) (CA INDEX NAME)

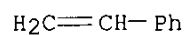
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CMF C4 H6



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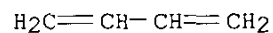
CRN 100-42-5  
CMF C8 H8



RN 26835-21-2 HCAPLUS  
CN Benzene, ethenyl-, polymer with 1,3-butadiene and ethene (9CI) (CA INDEX NAME)

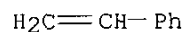
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CRN 106-99-0  
CMF C4 H6



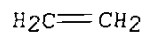
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CMF C8 H8



CM 3

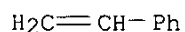
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CMF C2 H4



RN 105729-79-1 HCAPLUS  
CN Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene, block (9CI) (CA INDEX NAME)

CM 1

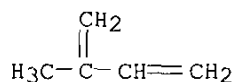
CRN 100-42-5  
CMF C8 H8



CM 2

CRN 78-79-5

CMF C5 H8



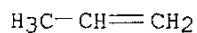
RN 108449-26-9 HCAPLUS

CN Benzene, ethenyl-, polymer with ethene and 1-propene, graft (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

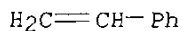
CMF C3 H6



CM 2

CRN 100-42-5

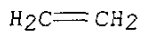
CMF C8 H8



CM 3

CRN 74-85-1

CMF C2 H4



IT 9003-07-0, Atactic polypropylene

25085-53-4, Isotactic polypropylene

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(hot-melt **adhesive** for nonwoven elastic  
**composite** for disposable **absorbent** article)

RN 9003-07-0 HCAPLUS

CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6

 $\text{H}_3\text{C}-\text{CH}=\text{CH}_2$ 

RN 25085-53-4 HCAPLUS

CN 1-Propene, homopolymer, isotactic (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6

 $\text{H}_3\text{C}-\text{CH}=\text{CH}_2$ 

L59 ANSWER 4 OF 43 HCAPLUS COPYRIGHT 2002 ACS

AN 2002:237385 HCAPLUS

DN 136:268212

TI Elastomeric polymeric fibers for **absorbent** structures

IN Mcdowall, Debra Jean; Smith, Charles Allen; Winstanley, Melanie Stephens

PA Kimberly-Clark Worldwide, Inc., USA

SO U.S., 10 pp.

CODEN: USXXAM

DT Patent

LA English

IC ICM A61F013-15

NCL 604367000

CC 63-7 (Pharmaceuticals)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6362389	B1	20020326	US 1998-197268	19981120

AB An **absorbent** elastic **nonwoven** material having improved conformability includes a matrix of thermoplastic elastomeric **nonwoven** filaments, present in an amt. of about 3% to < 20% by wt. of the **absorbent** elastic **nonwoven** material. A plurality of **absorbent** fibers and a superabsorbent material are contained within the matrix, each constituting about 20-77% by wt. of the **absorbent** elastic **nonwoven** material. The **absorbent** elastic **nonwoven** material is useful in a wide variety of personal care and **medical absorbent** articles where softness and conformability, as well as **absorbency** and elasticity, are important. For example, **absorbent** elastic **nonwoven composite** materials were prepd. using combinations of a soft wood pulp (three types), Kraton G2740 (formed into meltblown filaments), and Favor SXM 880, a particulate acrylate-based superabsorbent material. The filaments and **absorbent** ingredients were combined using a coform process. The superabsorbent particles were added together with the pulp fibers into the stream of substantially continuous filaments being formed. For each type of pulp, different quantities of pulp and superabsorbent were incorporated into the elastomeric filaments, which were present at levels of 5-20% by wt., and up to about 40% by wt. of the **absorbent** elastic **nonwoven composite** material.

ST thermoplastic rubber fiber **medical absorbent**

IT **Medical** goods

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(**absorbents**; thermoplastic elastomeric fibers for  
**medical absorbent** products)

IT **Medical goods**  
(bandages; thermoplastic elastomeric fibers for **medical  
absorbent** products)

IT Isoprene-styrene rubber  
Styrene-butadiene rubber, biological studies  
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological  
study); USES (Uses)  
(block; thermoplastic elastomeric fibers for **medical  
absorbent** products)

IT Synthetic polymeric fibers, biological studies  
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological  
study); USES (Uses)  
(butadiene-styrene rubber, block; thermoplastic elastomeric fibers for  
**medical absorbent** products)

IT Polyolefin fibers  
Synthetic polymeric fibers, biological studies  
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological  
study); USES (Uses)  
(butene-ethylene-styrene, block; thermoplastic elastomeric fibers for  
**medical absorbent** products)

IT Fibers  
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological  
study); USES (Uses)  
(cellulosic; thermoplastic elastomeric fibers for **medical  
absorbent** products)

IT **Medical goods**  
(drapes; thermoplastic elastomeric fibers for **medical  
absorbent** products)

IT Polyolefin fibers  
Synthetic polymeric fibers, biological studies  
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological  
study); USES (Uses)  
(ethylene-vinyl acetate; thermoplastic elastomeric fibers for  
**medical absorbent** products)

IT **Medical goods**  
(feminine; thermoplastic elastomeric fibers for **medical  
absorbent** products)

IT Feather  
(fiberized; thermoplastic elastomeric fibers for **medical  
absorbent** products)

IT Thermoplastic rubber  
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological  
study); USES (Uses)  
(fibers; thermoplastic elastomeric fibers for **medical  
absorbent** products)

IT Styrene-butadiene rubber, biological studies  
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological  
study); USES (Uses)  
(hydrogenated, block, triblock, Kraton G 2740; thermoplastic  
elastomeric fibers for **medical absorbent** products)

IT **Medical goods**  
(incontinence devices; thermoplastic elastomeric fibers for  
**medical absorbent** products)

IT Synthetic polymeric fibers, biological studies  
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological  
study); USES (Uses)  
(isoprene-styrene, block; thermoplastic elastomeric fibers for  
**medical absorbent** products)

- IT **Absorbents**  
(**medical**; thermoplastic elastomeric fibers for **medical absorbent** products)
- IT Polymerization catalysts  
(metallocene; thermoplastic elastomeric fibers for **medical absorbent** products)
- IT Synthetic rubber, biological studies  
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(polyamide; thermoplastic elastomeric fibers for **medical absorbent** products)
- IT Polyolefin rubber  
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(propene; thermoplastic elastomeric fibers for **medical absorbent** products)
- IT Clothing  
(swimwear; thermoplastic elastomeric fibers for **medical absorbent** products)
- IT Cellulose pulp  
Cotton fibers  
Disposable **diapers**  
(thermoplastic elastomeric fibers for **medical absorbent** products)
- IT Ethylene-vinyl acetate rubber  
Polyamide fibers, biological studies  
Polyester fibers, biological studies  
Polyester rubber  
Polyolefin fibers  
Polyolefin rubber  
Polypropene fibers, biological studies  
Polyurethane fibers  
Rayon, biological studies  
Urethane rubber, biological studies  
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(thermoplastic elastomeric fibers for **medical absorbent** products)
- IT Synthetic polymeric fibers, biological studies  
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(thermoplastic elastomeric; thermoplastic elastomeric fibers for **medical absorbent** products)
- IT **Medical goods**  
(training pants; thermoplastic elastomeric fibers for **medical absorbent** products)
- IT **Medical goods**  
(underpads; thermoplastic elastomeric fibers for **medical absorbent** products)
- IT **Medical goods**  
(wipes; thermoplastic elastomeric fibers for **medical absorbent** products)
- IT 24937-78-8  
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(ethylene-vinyl acetate rubber, thermoplastic elastomeric fibers for **medical absorbent** products)
- IT 25085-53-4, **Isotactic polypropylene**  
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)



- (fibers; thermoplastic elastomeric fibers for **medical absorbent** products)
- IT 105729-79-1  
 RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (isoprene-styrene rubber, block; thermoplastic elastomeric fibers for **medical absorbent** products)
- IT 106107-54-4  
 RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (styrene-butadiene rubber, block; thermoplastic elastomeric fibers for **medical absorbent** products)
- IT 9003-55-8  
 RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (styrene-butadiene rubber, hydrogenated, block, triblock, Kraton G 2740; thermoplastic elastomeric fibers for **medical absorbent** products)
- IT 9003-07-0, **Atactic polypropylene** 9004-34-6,  
 Cellulose, biological studies 24937-78-8, Ethylene-vinyl acetate copolymer 303013-49-2, Favor SXM 880  
 RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (thermoplastic elastomeric fibers for **medical absorbent** products)

RE.CNT 76 THERE ARE 76 CITED REFERENCES AVAILABLE FOR THIS RECORD

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IT 25085-53-4, **Isotactic polypropylene**

RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(fibers; thermoplastic elastomeric fibers for **medical absorbent** products)

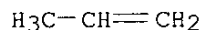
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CN 1-Propene, homopolymer, isotactic (9CI) (CA INDEX NAME)

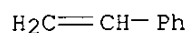
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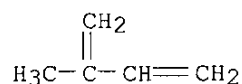
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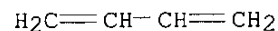
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 RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (isoprene-styrene rubber, block; thermoplastic elastomeric fibers for **medical absorbent** products)  
 RN 105729-79-1 HCAPLUS  
 CN Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene, block (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 100-42-5  
 CMF C8 H8



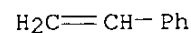
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 CMF C5 H8



IT 9003-55-8  
 RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (styrene-butadiene rubber, hydrogenated, block, triblock, Kraton G 2740; thermoplastic elastomeric fibers for **medical absorbent** products)  
 RN 9003-55-8 HCAPLUS  
 CN Benzene, ethenyl-, polymer with 1,3-butadiene (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 106-99-0  
 CMF C4 H6



CM 2  
 CRN 100-42-5  
 CMF C8 H8



IT 9003-07-0, **Atactic polypropylene**  
 RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological

study); USES (Uses)  
 (thermoplastic elastomeric fibers for **medical  
 absorbent** products)  
 RN 9003-07-0 HCAPLUS  
 CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 115-07-1  
 CMF C3 H6

H<sub>3</sub>C-CH=CH<sub>2</sub>

L59 ANSWER 5 OF 43 HCAPLUS COPYRIGHT 2002 ACS  
 AN 2002:160200 HCAPLUS  
 DN 136:201751  
 TI Oil-absorbing mats, their manufacture, and rollers for it  
 IN Kamino, Katsushi  
 PA Nissen Kagaku K. K., Japan  
 SO Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM A47L013-16  
 ICS B32B005-26; B32B027-32; D04H003-00; D04H003-02; D04H003-16;  
 F16C013-00; B01J020-26  
 CC 40-10 (Textiles and Fibers)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002065541	A2	20020305	JP 2000-254004	20000824

AB The mats comprise **atactic polypropylene** fiber mats sandwiched between spunbonded **nonwoven** fabrics, which are point-bonded with the intermediate mats. The rollers have randomly located pins on the surface and are heated at temp. higher than m.p. of the **atactic polypropylene**. The mats show good stiffness, no surface oiliness after oil absorption, low water absorption, and high oil absorption rate.

ST oil absorbing mat **atactic polypropylene**; **nonwoven** fabric oil absorbing mat; roller point bonding **nonwoven** fabric mat

IT Polypropene fibers, uses  
 RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (P 3030, mats or **nonwoven** fabric; oil-absorbing mats and rollers for their manuf.)

IT Absorbents  
 Mats  
 Rolls  
 (oil-absorbing mats and rollers for their manuf.)

IT **Nonwoven** fabrics  
 (polypropylene, spunbonded; oil-absorbing mats and rollers for their manuf.)

IT 9003-07-0, **Atactic polypropylene**  
 RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES

(Uses)  
(fiber, mats; oil-absorbing mats and rollers for their manuf.)

IT 25085-53-4, **Isotactic polypropylene**  
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES  
(Uses)  
(fiber, **nonwoven** fabrics; oil-absorbing mats and rollers for their manuf.)

L59 ANSWER 6 OF 43 RAPRA COPYRIGHT 2002 RAPRA  
AN R:831516 RAPRA FS Rapra Abstracts  
TI NONWOVENS CAN TAKE THE HEAT.  
AU Wubbe E  
SO Nonwovens Industry 32, No.10, Oct. 2001, p.52/3  
ISSN: 0163-4429  
PY 2001  
DT Journal  
LA English  
AB The design and effectiveness is described of non-woven disposable shoe and underarm **adhesive** liners that have been developed by an independent inventor to **absorb** perspiration. The first layer of the liner is a spunbonded PP and the second layer is an **absorbent** needle punched rayon and polyester non-woven material. The third or retardant layer prevents perspiration from going through the fabric and staining it. This layer is made from a spun bonded non-woven which adheres to the fabric and the shoe. The **adhesive** strip is attached to the retardant layer so that the underarm liner can adhere to the garment of two sides.  
CC 62.11; 9351  
SC \*OM; UE  
CT **ABSORBENT; ADHESIVE FABRIC; CLOTHING; DATA; DISPOSABLE; FOOTWEAR; LINER; NON-WOVEN; PLASTIC; POLYPROPENE; POLYPROPYLENE; PP; PRODUCT ANNOUNCEMENT; RAYON; SATURATED POLYESTER; SHOE; SPUN BONDED; THERMOPLASTIC**  
SHR NON WOVEN FABRICS, **absorbent**, permeability, barrier properties; PERMEABILITY, perspiration, liners; BARRIER PROPERTIES, perspiration, liners  
GT USA

L59 ANSWER 7 OF 43 HCAPLUS COPYRIGHT 2002 ACS  
AN 2000:749018 HCAPLUS  
DN 133:297480  
TI Antisoiling, environmentally friendly, durable, soft covering materials for electric carpets  
IN Takeda, Junichi; Hata, Yoshihiko  
PA Suminoe Textile Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 11 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC ICM F24D013-02  
ICS A47G027-02; B32B005-26; B32B027-12; B32B027-32; H05B003-20  
CC 38-3 (Plastics Fabrication and Uses)  
Section cross-reference(s): 40  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000297944	A2	20001024	JP 1999-106790	19990414

AB The covering materials consist of a **nonwoven** fabric layer, a propylene polymer-based layer laminated on the former layer, and another

- nonwoven** fabric layer laminated under the former **nonwoven** fabric layer via an ethylene polymer-based intermediate layer. Elec. carpets consisting of the covering material and a backing layer laminated under the second **nonwoven** fabric layer via a heater layer are also claimed. Thus, a 70:30 polypropylene-hydrogenated SBR blend sheet was gravure-printed, laminated with a polyester **nonwoven** fabric, covered with a sheet of a 80:20 mixt. of polyethylene and ethylene-methacrylic acid copolymer, and further laminated with a needle-punched polyester fiber-polypropylene fiber **composite** felt to give a covering material, which was further laminated with another felt via a heater layer to give an elec. carpet showing excellent abrasion resistance, durability, dimensional stability, peel strength, flexibility, and appearance.
- ST elec carpet cover polypropylene SBR blend; antisoiling carpet cover polypropylene **nonwoven** laminate
- IT Felts  
     **Nonwoven** fabrics  
         (antisoiling, environmentally friendly, durable, soft covering materials for elec. carpets)
- IT Laminated plastics, uses  
     Polymer blends  
     RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
         (antisoiling, environmentally friendly, durable, soft covering materials for elec. carpets)
- IT Electric heaters  
     (carpet; antisoiling, environmentally friendly, durable, soft covering materials for elec. carpets)
- IT Carpets  
     (elec.; antisoiling, environmentally friendly, durable, soft covering materials for elec. carpets)
- IT Polypropene fibers, uses  
     RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
         (fabrics, **nonwoven**, polypropylene fibers; antisoiling, environmentally friendly, durable, soft covering materials for elec. carpets)
- IT Polyester fibers, uses  
     RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
         (fabrics, **nonwoven**; antisoiling, environmentally friendly, durable, soft covering materials for elec. carpets)
- IT Styrene-butadiene rubber, uses  
     RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
         (hydrogenated; antisoiling, environmentally friendly, durable, soft covering materials for elec. carpets)
- IT 9002-88-4, Polyethylene 9003-07-0, Polypropylene 25053-53-6, Ethylene-methacrylic acid copolymer  
     RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
         (antisoiling, environmentally friendly, durable, soft covering materials for elec. carpets)
- IT 25085-53-4, Isotactic polypropylene  
     RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
         (fiber, **nonwoven**; antisoiling, environmentally friendly, durable, soft covering materials for elec. carpets)
- IT 9003-55-8  
     RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or

engineered material use); USES (Uses)  
(styrene-butadiene rubber, hydrogenated; antisoiling, environmentally friendly, durable, soft covering materials for elec. carpets)  
IT 9003-07-0, Polypropylene  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(antisoiling, environmentally friendly, durable, soft covering materials for elec. carpets)  
RN 9003-07-0 HCAPLUS  
CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)  
  
CM 1  
  
CRN 115-07-1  
CMF C3 H6

$\text{H}_3\text{C}-\text{CH}=\text{CH}_2$

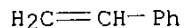
IT 25085-53-4, Isotactic polypropylene  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(fiber, **nonwoven**; antisoiling, environmentally friendly, durable, soft covering materials for elec. carpets)  
RN 25085-53-4 HCAPLUS  
CN 1-Propene, homopolymer, isotactic (9CI) (CA INDEX NAME)  
  
CM 1  
  
CRN 115-07-1  
CMF C3 H6

$\text{H}_3\text{C}-\text{CH}=\text{CH}_2$

IT 9003-55-8  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(styrene-butadiene rubber, hydrogenated; antisoiling, environmentally friendly, durable, soft covering materials for elec. carpets)  
RN 9003-55-8 HCAPLUS  
CN Benzene, ethenyl-, polymer with 1,3-butadiene (9CI) (CA INDEX NAME)  
  
CM 1  
  
CRN 106-99-0  
CMF C4 H6

$\text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2$

CM 2  
  
CRN 100-42-5  
CMF C8 H8



L59 ANSWER 8 OF 43 HCAPLUS COPYRIGHT 2002 ACS  
 AN 2000:464793 HCAPLUS  
 DN 133:90611  
 TI Thermoplastic olefin rubber-based decorative sheets  
 IN Nakayama, Hiroaki  
 PA Dainippon Printing Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 13 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM B32B025-08  
 ICS B32B027-18; B32B027-32; C08K003-00; C08L009-06; C08L023-10  
 CC 39-15 (Synthetic Elastomers and Natural Rubber)  
 Section cross-reference(s): 38, 58

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000190426	A2	20000711	JP 1998-369441	19981225
	JP 3253928	B2	20020204		
AB	Title sheets comprise (A) base sheets consecutively consisting of inorg. filler- and colorant-free transparent thermoplastic olefin rubber compns. (TOR; contg. cryst. polypropylene and SBR or olefin rubber) layers, colorant-contg. TOR layers, and filler- and colorant-free TOR layers, and (B) decorative layers. A 25:75 <b>atactic polypropylene</b> and <b>isotactic polypropylene</b> blend (TOR1) was used along with pigments and CaCO <sub>3</sub> to form a trilayered base sheet, which was treated with elec. corona, spread with HMDI- and acrylic polyol-contg. primer, printed, coated with a heat-sealable DT 5 (polyurethane) layer, laminated with a DT 5-coated ADK Stab LA 62-contg. TOR1 sheet, hot pressed, and embossed to form a laminate. The laminate was wiped with an ink and coated to form a decorative sheet.				
ST	thermoplastic olefin rubber base decorative sheet; UV <b>absorbent</b> resin laminate thermoplastic olefin rubber base				
IT	Acrylic polymers, uses Polyesters, uses RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (UV <b>absorber</b> -contg. sheet; decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)				
IT	Polyurethanes, uses RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (acrylic, coatings; decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)				
IT	Fillers Pigments, nonbiological UV stabilizers (decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)				
IT	Carbon black, uses RL: MOA (Modifier or additive use); USES (Uses) (decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)				
IT	Polyolefin rubber Styrene-butadiene rubber, uses				



- RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)
- IT Polymer blends  
RL: TEM (Technical or engineered material use); USES (Uses)  
(decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)
- IT Construction materials  
(decorative; decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)
- IT Acrylic polymers, uses  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(polyurethane-, coatings; decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)
- IT 107119-91-5, ADK Stab LA 62  
RL: MOA (Modifier or additive use); USES (Uses)  
(UV **absorbent**; decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)
- IT 9011-14-7, PMMA 24938-04-3, Ethylene glycol-isophthalic acid-terephthalic acid copolymer 25067-34-9, Ethylene-vinyl alcohol copolymer  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(UV **absorber**-contg. sheet; decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)
- IT 822-06-0D, HMDI, polymers with acrylic polyols  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(coatings; decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)
- IT 9005-09-8, Maleic acid-vinyl acetate-vinyl chloride copolymer  
RL: TEM (Technical or engineered material use); USES (Uses)  
(coatings; decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)
- IT 25085-53-4, **Isotactic polypropylene**  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(cryst.; decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)
- IT 1309-37-1, Iron oxide red, uses 13463-67-7, Titania, uses 83383-11-3, Yellow lead  
RL: MOA (Modifier or additive use); USES (Uses)  
(decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)
- IT 281676-58-2, DT 5 (polyurethane)  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)
- IT 471-34-1, Calcium carbonate, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(filler; decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)
- IT 26471-62-5, TDI  
RL: TEM (Technical or engineered material use); USES (Uses)  
(in coatings; decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)
- IT 9003-22-9, Vinyl acetate-vinyl chloride copolymer

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(ink binder; decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)

IT 9003-07-0, Polypropylene  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(rubber; decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)

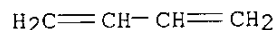
IT 9003-55-8  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(styrene-butadiene rubber, decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)

IT 9003-55-8  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(styrene-butadiene rubber, decorative sheets contg. trilayered thermoplastic olefin rubber-formed base sheets)

RN 9003-55-8 HCAPLUS  
CN Benzene, ethenyl-, polymer with 1,3-butadiene (9CI) (CA INDEX NAME)

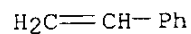
CM 1

CRN 106-99-0  
CMF C4 H6



CM 2

CRN 100-42-5  
CMF C8 H8



L59 ANSWER 9 OF 43 HCAPLUS COPYRIGHT 2002 ACS  
AN 2000:105112 HCAPLUS  
DN 132:138536  
TI Decorative laminates containing an antibleeding UV **absorber**  
IN Kitaguchi, Takashi; Chihara, Kenshiro; Sakamoto, Susumu; Kawano, Kazuyasu  
PA Dainippon Printing Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 12 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC ICM B32B027-32  
ICS B32B027-00; B32B033-00  
CC 38-3 (Plastics Fabrication and Uses)  
Section cross-reference(s): 39  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 2000043210	A2	20000215	JP 1998-218301	19980731

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

- AB The laminates consist of a base sheet and a polyolefin surface sheet contg. 2-[2-hydroxy-3,5-bis(.alpha.,.alpha.-dimethylbenzyl)phenyl]benzotriazole (I). Thus, a 80:20 **isotactic polypropylene-atactic polypropylene** blend thermoplastic elastomer contg. 0.8% I and 0.4% hindered amine-type radical scavenger was extruded into a film showing no bleeding of the UV **absorber**.
- ST polyolefin antibleeding UV **absorber**  
hydroxybisdimethylbenzylphenyl benzotriazole; polypropylene thermoplastic elastomer decorative laminate
- IT UV stabilizers  
([hydroxybis(dimethylbenzyl)phenyl]benzotriazole; decorative laminates contg. antibleeding UV **absorber**)
- IT Polyolefins  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(decorative laminates contg. antibleeding UV **absorber**)
- IT Laminated plastics, uses  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(decorative; decorative laminates contg. antibleeding UV **absorber**)
- IT Styrene-butadiene rubber, uses  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(hydrogenated; decorative laminates contg. antibleeding UV **absorber**)
- IT Polymer blends  
Thermoplastic rubber  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(**isotactic polypropylene-atactic polypropylene** blends; decorative laminates contg. antibleeding UV **absorber**)
- IT Polyolefin rubber  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(propene; decorative laminates contg. antibleeding UV **absorber**)
- IT 25085-53-4, **Isotactic polypropylene**  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(**atactic polypropylene** blends, thermoplastic elastomer; decorative laminates contg. antibleeding UV **absorber**)
- IT 70321-86-7, 2-[2-Hydroxy-3,5-bis(.alpha.,.alpha.-dimethylbenzyl)phenyl]benzotriazole  
RL: MOA (Modifier or additive use); USES (Uses)  
(decorative laminates contg. antibleeding UV **absorber**)
- IT 9002-88-4, HDPE  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(decorative laminates contg. antibleeding UV **absorber**)
- IT 9003-07-0, **Polypropylene**  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(**isotactic polypropylene** blends, thermoplastic elastomer; decorative laminates contg. antibleeding UV **absorber**)
- IT 9003-55-8  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or

engineered material use); USES (Uses)  
 (styrene-butadiene rubber, hydrogenated; decorative laminates contg.  
 antibleeding UV **absorber**)

IT 9003-55-8  
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or  
 engineered material use); USES (Uses)  
 (styrene-butadiene rubber, hydrogenated; decorative laminates contg.  
 antibleeding UV **absorber**)

RN 9003-55-8 HCAPLUS

CN Benzene, ethenyl-, polymer with 1,3-butadiene (9CI) (CA INDEX NAME)

CM 1

CRN 106-99-0

CMF C4 H6

$$\text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2$$

CM 2

CRN 100-42-5

CMF C8 H8

$$\text{H}_2\text{C}=\text{CH}-\text{Ph}$$

L59 ANSWER 10 OF 43 HCAPLUS COPYRIGHT 2002 ACS

AN 2000:632493 HCAPLUS

DN 133:194234

TI Laminated waterproof **composite** film and its preparation

IN Zhang, Mingjie

PA Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 4 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

IC ICM B32B027-02

CC 38-3 (Plastics Fabrication and Uses)

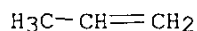
Section cross-reference(s): 40

FAN.CNT 1

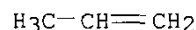
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1244461	A	20000216	CN 1999-113189	19990824
AB	The film is prepd. by: mixing polyethylene (PE) 1, polypropylene (PP) 0.8-1.2, ethylene-vinyl acetate copolymer (EVA) 0.06-0.1, antioxidant 0.001-0.006, light stabilizer 0.001-0.006 and carbon black 0.02-0.16 to obtain bonding agent; bonding PE fabric braid and PP <b>nonwovens</b> with the bonding agent by laminating app. at 220-280.degree., and repeating twice to obtain 5-layer laminated film with the PE fabric braid as middle layer and the PP <b>nonwovens</b> as 2 surface layers. The film shows very good waterproof property.				
ST	laminated <b>composite</b> film waterproof prepn; polyethylene laminated <b>composite</b> film waterproof; polypropylene laminated <b>composite</b> film waterproof; ethylene vinyl acetate copolymer laminated film; fabric polyethylene laminated film; <b>nonwoven</b>				

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

polypropylene laminated film  
 IT Polyolefin fibers  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (ethylene; manuf. of polypropylene **nonwoven**-polymer blend  
**adhesive**-polyethylene fabric waterproof laminated film)  
 IT Water-resistant materials  
 Water-resistant materials  
 (films; manuf. of polypropylene **nonwoven**-polymer blend  
**adhesive**-polyethylene fabric waterproof laminated film)  
 IT Laminated plastic films  
**Nonwoven** fabrics  
 (manuf. of polypropylene **nonwoven**-polymer blend  
**adhesive**-polyethylene fabric waterproof laminated film)  
 IT Polypropene fibers, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (manuf. of polypropylene **nonwoven**-polymer blend  
**adhesive**-polyethylene fabric waterproof laminated film)  
 IT Antioxidants  
 Light stabilizers  
 (manuf. of polypropylene **nonwoven**-polymer blend  
**adhesive**-polyethylene fabric waterproof laminated film contg.)  
 IT Carbon black, uses  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (manuf. of polypropylene **nonwoven**-polymer blend  
**adhesive**-polyethylene fabric waterproof laminated film contg.)  
 IT **Adhesives**  
 (polyethylene-polypropylene-ethylene vinyl acetate copolymer; manuf. of  
 polypropylene **nonwoven**-polymer blend **adhesive**  
 -polyethylene fabric waterproof laminated film)  
 IT Films  
 Films  
 (water-resistant; manuf. of polypropylene **nonwoven**-polymer  
 blend **adhesive**-polyethylene fabric waterproof laminated film)  
 IT 9002-88-4, Polyethylene 9003-07-0, Polypropylene 24937-78-8,  
 Ethylene-vinyl acetate copolymer  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (**adhesives** contg.; manuf. of polypropylene **nonwoven**  
 -polymer blend **adhesive**-polyethylene fabric waterproof  
 laminated film)  
 IT 25085-53-4, Isotactic polypropylene  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (**nonwovens**; manuf. of polypropylene **nonwoven**  
 -polymer blend **adhesive**-polyethylene fabric waterproof  
 laminated film)  
 IT 9003-07-0, Polypropylene  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (**adhesives** contg.; manuf. of polypropylene **nonwoven**  
 -polymer blend **adhesive**-polyethylene fabric waterproof  
 laminated film)  
 RN 9003-07-0 HCAPLUS  
 CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 115-07-1  
 CMF C3 H6



IT 25085-53-4, Isotactic polypropylene  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (nonwovens; manuf. of polypropylene nonwoven  
 -polymer blend adhesive-polyethylene fabric waterproof  
 laminated film)  
 RN 25085-53-4 HCAPLUS  
 CN 1-Propene, homopolymer, isotactic (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 115-07-1  
 CMF C3 H6



L59 ANSWER 11 OF 43 HCAPLUS COPYRIGHT 2002 ACS DUPLICATE 1  
 AN 1999:482052 HCAPLUS  
 DN 131:117302  
 TI Polyolefins, especially **polypropylene** having syndiotactic and  
**atactic** blocks, and uses thereof  
 IN Haveaux, Bernard; Coupin, Thierry  
 PA Fina Research S.A., Belg.  
 SO Eur. Pat. Appl., 33 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 IC ICM C08L023-00  
 ICS C08L023-10; C08F110-06  
 CC 38-3 (Plastics Fabrication and Uses)  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 931814	A1	19990728	EP 1998-100982	19980121
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 11315175	A2	19991116	JP 1999-7789	19990114
US 6348272	B1	20020219	US 1999-233829	19990120
WO 9937711	A2	19990729	WO 1999-EP371	19990121
WO 9937711	A3	20000316		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9928290	A1	19990809	AU 1999-28290	19990121
EP 1049741	A2	20001108	EP 1999-908808	19990121
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 2002055561	A1	20020509	US 2001-973207	20011009
PRAI EP 1998-100982	A	19980121		
US 1999-233829	A3	19990120		
WO 1999-EP371	W	19990121		
AB	Syndiotactic/ <b>atactic</b> block <b>polypropylene</b> (I), preferably having mol. wt. .gtoreq.120 kD, can be used for such things as			

as a polypropylene modifier, a compn. for molding into a footwear component, a bitumen modifier, a compatibilizer, an emulgator or an emulsifier, a viscosity improver, a spilled oil **absorber**, and a component in an **adhesive** compn., a shock **absorber**, a waterproof membrane, a packaging film, a shapable compn., and an acoustic **absorbent** material. Thus, I (18.4% atactic, Mw 186,000) prepd. using a 2,7-di-tert-Bu dimethyl-tert-butylamido titanium dichloride catalyst, showed elongation at break 1100%, tensile modulus 18 MPa, hysteresis elongation 578%, Shore A hardness 75, and rebound 13%, compared with 500, 7, 450, 57, and 80, resp., for Finaprene F 401 (Mw 176,000).

- ST **polypropylene** syndiotactic **atactic** block prepn use;  
 metallocene syndiotactic **atactic** block **polypropylene**  
 prepn; footwear syndiotactic **atactic** block **polypropylene**  
 ; **adhesive** syndiotactic **atactic** block  
**polypropylene**; shock **absorber** syndiotactic  
**atactic** block **polypropylene**; packaging film syndiotactic  
**atactic** block **polypropylene**; sound **absorber**  
 syndiotactic **atactic** block **polypropylene**; bitumen  
 modifier syndiotactic **atactic** block **polypropylene**;  
 compatibilizer syndiotactic **atactic** block **polypropylene**  
 ; emulsifier syndiotactic **atactic** block **polypropylene**;  
 viscosity improver syndiotactic **atactic** block  
**polypropylene**; oil **absorbent** syndiotactic  
**atactic** block **polypropylene**
- IT Aluminoxanes  
 RL: CAT (Catalyst use); USES (Uses)  
 (Me, catalyst with metallocenes; polyolefins, esp. syndiotactic/  
**atactic** block **polypropylene**, and uses thereof)
- IT Oil spill  
 (**absorbents** for; crosslinked **polypropylene** having  
 syndiotactic and **atactic** blocks as)
- IT Sealing compositions  
 (bitumens modified by syndiotactic/**atactic** block  
**polypropylene**, and uses thereof)
- IT Medical goods  
 (casts; **polypropylene** having syndiotactic and **atactic**  
 blocks and uses thereof)
- IT Metallocenes  
 RL: CAT (Catalyst use); USES (Uses)  
 (catalyst; polyolefins, esp. syndiotactic/**atactic** block  
**polypropylene**, and uses thereof)
- IT Lubricating oils  
 (crankcase, viscosity improver for; **polypropylene** having  
 syndiotactic and **atactic** blocks and uses thereof)
- IT Packaging materials  
 Packaging materials  
 (films, heat-shrinkable; **polypropylene** having syndiotactic  
 and **atactic** blocks and uses thereof)
- IT Packaging materials  
 Water-resistant materials  
 (films; **polypropylene** having syndiotactic and **atactic**  
 blocks and uses thereof)
- IT **Absorbents**  
 (for oil spills; crosslinked **polypropylene** having  
 syndiotactic and **atactic** blocks as)
- IT Thermoplastic rubber  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material  
 use); USES (Uses)  
 (gel; contg. crosslinked **polypropylene** having syndiotactic  
 and **atactic** blocks for spilled oil **absorber**)

IT Books  
(manuf., **adhesives** for; **polypropylene** having syndiotactic and **atactic** blocks and uses thereof)

IT Polyolefins  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(modified by syndiotactic/**atactic** block **polypropylene**, and uses thereof)

IT Bitumens  
RL: TEM (Technical or engineered material use); USES (Uses)  
(modified by syndiotactic/**atactic** block **polypropylene**, and uses thereof)

IT Heat-shrinkable materials  
(packaging films; **polypropylene** having syndiotactic and **atactic** blocks and uses thereof)

IT Polymer blends  
RL: TEM (Technical or engineered material use); USES (Uses)  
(**polypropylene** having syndiotactic and **atactic** blocks and recycled plastics)

IT **Adhesives**  
Emulsifying agents  
Footwear  
Plastic films  
Polymer blend compatibilizers  
Shock **absorbers**  
Sound insulators  
(**polypropylene** having syndiotactic and **atactic** blocks and uses thereof)

IT Molded plastics, uses  
Plastic foams  
Polypropene fibers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(**polypropylene** having syndiotactic and **atactic** blocks and uses thereof)

IT Gamma ray  
(**polypropylene** having syndiotactic and **atactic** blocks resistant to)

IT Sporting goods  
Sporting goods  
(shoes, soles; **polypropylene** having syndiotactic and **atactic** blocks and uses thereof)

IT Shoes  
(soles; **polypropylene** having syndiotactic and **atactic** blocks and uses thereof)

IT Shoes  
Shoes  
(sport, soles; **polypropylene** having syndiotactic and **atactic** blocks and uses thereof)

IT Lubricating oil additives  
(viscosity improvers; **polypropylene** having syndiotactic and **atactic** blocks and uses thereof)

IT Films  
(water-resistant; **polypropylene** having syndiotactic and **atactic** blocks and uses thereof)

IT 25085-53-4, **Isotactic polypropylene** 26063-22-9, Syndiotactic polypropylene  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(blends with **polypropylene** having syndiotactic and **atactic** blocks and uses thereof)



IT 202001-76-1 202001-77-2 202001-78-3 202001-79-4

RL: CAT (Catalyst use); USES (Uses)  
 (catalyst; polyolefins, esp. syndiotactic/**atactic** block  
**polypropylene**, and uses thereof)

IT 9003-07-0P, **Polypropylene**

RL: IMF (Industrial manufacture); TEM (Technical or engineered material  
 use); PREP (Preparation); USES (Uses)  
 (polyolefins, esp. syndiotactic/**atactic** block  
**polypropylene**, and uses thereof)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 RE

- (1) Fina Research; EP 0818475 A 1998 HCAPLUS
- (2) Fina Technology; EP 0747430 A 1996 HCAPLUS
- (3) Phillips Petroleum Co; EP 0628577 A 1994 HCAPLUS
- (4) Shell Oil Co; WO 9012816 A 1990 HCAPLUS
- (5) Sumitomo; WO 9744389 A 1997 HCAPLUS

LS9 ANSWER 12 OF 43 HCAPLUS COPYRIGHT 2002 ACS

AN 1999:495445 HCAPLUS

DN 131:131036

TI Expanded PTFE-containing flocked articles

IN Norvell, Jean; Wagner, Philip L.

PA Gore Enterprise Holdings, Inc., USA

SO PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM D04H011-00

ICS A41D031-02; B32B005-32; D06N007-00; D06Q001-14; D06N003-00

CC 38-3 (Plastics Fabrication and Uses)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9939038	A1	19990805	WO 1998-US27038	19981218
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9918325	A1	19990816	AU 1999-18325	19981218
PRAI US 1998-15616		19980129		
WO 1998-US27038		19981218		
AB Flocked articles are disclosed which include as at least one component of the article a water resistant, wind resistant, breathable portion. The water resistant, wind resistant, breathable portion may be a membrane, layered structure or <b>composite</b> which is either porous or nonporous, which can also be air permeable or air impermeable, hydrophilic, hydrophobic and/or oleophobic. In a particularly preferred embodiment of the present invention, at least a portion of the article comprises an expanded PTFE [i.e., microporous structure of microscopic polymer fibrils interconnecting polymer nodes (particles) from which the fibrils emerge]. The flocked surface of the articles has abrasion-to-leakage value of .gtoreq.50 wear cycles. The flocked article may have any desired shape, such as a flexible sheet, a fabric, a fiber, a flexible or rigid three-dimensional shape, a tube, or the like. Moreover the configuration of the article may be either simple or complex, ranging from a single sheet to a layered structure to a multilayered, multicompositional form. A typical article comprised an expanded PTFE				

membrane, coated with a pressure-sensitive **adhesive**, and flocked with nylon flocking.

ST microporous PTFE membrane nylon flocked

IT Synthetic polymeric fibers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(Me methacrylate, flock; water-resistant, breathable, wind-resistant expanded PTFE-contg. flocked articles)

IT Epoxy resins, uses  
Fluoropolymers, uses  
Polysiloxanes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(**adhesives**; in water-resistant, breathable, wind-resistant expanded PTFE-contg. flocked articles)

IT Polyamide fibers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(aramid, flock; water-resistant, breathable, wind-resistant expanded PTFE-contg. flocked articles)

IT Textiles  
(cotton, substrate component; water-resistant, breathable, wind-resistant expanded PTFE-contg. flocked articles)

IT Polyolefin fibers  
RL: TEM (Technical or engineered material use); USES (Uses)  
(ethylene, flock; water-resistant, breathable, wind-resistant expanded PTFE-contg. flocked articles)

IT Carbon fibers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(fabrics, substrate component; water-resistant, breathable, wind-resistant expanded PTFE-contg. flocked articles)

IT Polycarbonates, uses  
Polycarbonates, uses  
Polysulfones, uses  
Polysulfones, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(fiber, flock; water-resistant, breathable, wind-resistant expanded PTFE-contg. flocked articles)

IT Acetate fibers, uses  
Polyester fibers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(flock and substrate component; water-resistant, breathable, wind-resistant expanded PTFE-contg. flocked articles)

IT Polyamide fibers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(flock, Cordora; water-resistant, breathable, wind-resistant expanded PTFE-contg. flocked articles)

IT Cotton  
Wool  
(flock; water-resistant, breathable, wind-resistant expanded PTFE-contg. flocked articles)

IT Acrylic fibers, uses  
Carbon fibers, uses  
Glass fibers, uses  
Polyolefin fibers  
Polypropene fibers, uses  
Rayon, uses  
Vinyon fibers  
RL: TEM (Technical or engineered material use); USES (Uses)  
(flock; water-resistant, breathable, wind-resistant expanded PTFE-contg. flocked articles)

IT Clothing  
(hosiery; water-resistant, breathable, wind-resistant expanded

PTFE-contg. flocked articles)

IT Textiles  
(knitted, substrate component; water-resistant, breathable,  
wind-resistant expanded PTFE-contg. flocked articles)

IT Polyethers, uses  
Polyethers, uses  
Polyethers, uses  
Polyethers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyamide-polyester-, fiber, flock; water-resistant, breathable,  
wind-resistant expanded PTFE-contg. flocked articles)

IT Polyethers, uses  
Polyethers, uses  
Polyethers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyamide-polyester-, substrate component; water-resistant,  
breathable, wind-resistant expanded PTFE-contg. flocked articles)

IT Synthetic polymeric fibers, uses  
Synthetic polymeric fibers, uses  
Synthetic polymeric fibers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyamide-polyester-polyethers, flock; water-resistant, breathable,  
wind-resistant expanded PTFE-contg. flocked articles)

IT Polyesters, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyamide-polyether-, fiber, flock; water-resistant, breathable,  
wind-resistant expanded PTFE-contg. flocked articles)

IT Polyester fibers, uses  
Polyester fibers, uses  
Polyester fibers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyamide-polyether-, flock; water-resistant, breathable,  
wind-resistant expanded PTFE-contg. flocked articles)

IT Polyesters, uses  
Polyesters, uses  
Polyesters, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyamide-polyether-, substrate component; water-resistant,  
breathable, wind-resistant expanded PTFE-contg. flocked articles)

IT Synthetic polymeric fibers, uses  
Synthetic polymeric fibers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polycarbonates, flock; water-resistant, breathable, wind-resistant  
expanded PTFE-contg. flocked articles)

IT Polyethers, uses  
Polyethers, uses  
Polyethers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyester-, fiber, flock; water-resistant, breathable, wind-resistant  
expanded PTFE-contg. flocked articles)

IT Polyethers, uses  
Polyethers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyester-, substrate component; water-resistant, breathable,  
wind-resistant expanded PTFE-contg. flocked articles)

IT Polyamides, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyester-polyether-, fiber, flock; water-resistant, breathable,  
wind-resistant expanded PTFE-contg. flocked articles)

IT Polyamide fibers, uses

Polyamide fibers, uses  
Polyamide fibers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyester-polyether-, flock; water-resistant, breathable,  
wind-resistant expanded PTFE-contg. flocked articles)

IT Polyamides, uses  
Polyamides, uses  
Polyamides, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyester-polyether-, substrate component; water-resistant,  
breathable, wind-resistant expanded PTFE-contg. flocked articles)

IT Synthetic polymeric fibers, uses  
Synthetic polymeric fibers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyester-polyethers, flock; water-resistant, breathable,  
wind-resistant expanded PTFE-contg. flocked articles)

IT Polyesters, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyether-, fiber, flock; water-resistant, breathable, wind-resistant  
expanded PTFE-contg. flocked articles)

IT Polyester fibers, uses  
Polyester fibers, uses  
Polyurethane fibers  
Polyurethane fibers  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyether-, flock; water-resistant, breathable, wind-resistant  
expanded PTFE-contg. flocked articles)

IT Polyesters, uses  
Polyesters, uses  
Polyurethanes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyether-, substrate component; water-resistant, breathable,  
wind-resistant expanded PTFE-contg. flocked articles)

IT Synthetic polymeric fibers, uses  
Synthetic polymeric fibers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyether-polyurethanes, flock; water-resistant, breathable,  
wind-resistant expanded PTFE-contg. flocked articles)

IT Vinyl compounds, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polymers, substrate component; water-resistant, breathable,  
wind-resistant expanded PTFE-contg. flocked articles)

IT Synthetic polymeric fibers, uses  
Synthetic polymeric fibers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polysulfones, flock; water-resistant, breathable, wind-resistant  
expanded PTFE-contg. flocked articles)

IT Synthetic polymeric fibers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(styrene, flock; water-resistant, breathable, wind-resistant expanded  
PTFE-contg. flocked articles)

IT Leather  
Membranes, nonbiological  
Nonwoven fabrics  
Paper  
(substrate component; water-resistant, breathable, wind-resistant  
expanded PTFE-contg. flocked articles)

IT Fluoro rubber  
Fluoropolymers, uses  
Glass fiber fabrics

Polyamines  
Polycarbonates, uses  
Polyolefins  
Polysulfones, uses  
Polyurethanes, uses  
Rubber, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(substrate component; water-resistant, breathable, wind-resistant  
expanded PTFE-contg. flocked articles)

IT Laminated plastics, miscellaneous  
RL: MSC (Miscellaneous)  
(substrates; water-resistant, breathable, wind-resistant expanded  
PTFE-contg. flocked articles)

IT Synthetic polymeric fibers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(vinylidene fluoride, flock; water-resistant, breathable,  
wind-resistant expanded PTFE-contg. flocked articles)

IT Clothing  
Flocks  
(water-resistant, breathable, wind-resistant expanded PTFE-contg.  
flocked articles)

IT Fluoropolymers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(water-resistant, breathable, wind-resistant expanded PTFE-contg.  
flocked articles)

IT Textiles  
(wool, substrate component; water-resistant, breathable, wind-resistant  
expanded PTFE-contg. flocked articles)

IT 25085-53-4, Isotactic polypropylene  
RL: TEM (Technical or engineered material use); USES (Uses)  
(fibers, flock; water-resistant, breathable, wind-resistant expanded  
PTFE-contg. flocked articles)

IT 9004-35-7, Cellulose acetate  
RL: TEM (Technical or engineered material use); USES (Uses)  
(flock and substrate component; water-resistant, breathable,  
wind-resistant expanded PTFE-contg. flocked articles)

IT 9002-86-2, Polyvinylchloride 9002-88-4, Polyethylene 9002-98-6  
9003-07-0, Polypropylene 9003-53-6, Polystyrene 9011-14-7,  
Polymethylmethacrylate 24937-79-9, Polyvinylidenefluoride 25014-41-9,  
Polyacrylonitrile  
RL: TEM (Technical or engineered material use); USES (Uses)  
(substrate component; water-resistant, breathable, wind-resistant  
expanded PTFE-contg. flocked articles)

IT 9002-84-0, PTFE  
RL: TEM (Technical or engineered material use); USES (Uses)  
(water-resistant, breathable, wind-resistant expanded PTFE-contg.  
flocked articles)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE  
(1) Endrenyi, F; US 3616136 A 1971 HCAPLUS  
(2) Gore & Ass; EP 0288214 A 1988 HCAPLUS  
(3) Gore & Ass; WO 9734507 A 1997 HCAPLUS  
(4) Kanebo Ltd; JP 63028984 A 1988 HCAPLUS  
(5) Malden Mills Ind Inc; EP 0445394 A 1991 HCAPLUS  
(6) Peter, Z; WO 9635578 A 1996

IT 25085-53-4, Isotactic polypropylene  
RL: TEM (Technical or engineered material use); USES (Uses)  
(fibers, flock; water-resistant, breathable, wind-resistant expanded  
PTFE-contg. flocked articles)

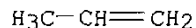
RN 25085-53-4 HCAPLUS

CN 1-Propene, homopolymer, isotactic (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6



IT 9003-07-0, Polypropylene

RL: TEM (Technical or engineered material use); USES (Uses)  
(substrate component; water-resistant, breathable, wind-resistant  
expanded PTFE-contg. flocked articles)

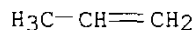
RN 9003-07-0 HCAPLUS

CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6



L59 ANSWER 13 OF 43 HCAPLUS COPYRIGHT 2002 ACS

AN 1999:683128 HCAPLUS

DN 131:287565

TI Decorative sheet with excellent adhesion to substrate, blocking  
resistance, and good printability

IN Shimizu, Kazumi; Takahashi, Hiroaki

PA Dainippon Printing Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM B32B027-32

ICS B32B027-00; B32B027-30

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 42, 43

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11291417	A2	19991026	JP 1998-107115	19980403
	JP 2873964	B2	19990324		

AB Title decorative polyolefin sheet is that prepd. by forming the outmost  
primer layer contg. filler pigments and a binder composed of vinyl  
acetate-vinyl chloride copolymer having active H-contg. polar functional  
group and isocyanate compds. The filler pigment combinations are selected  
from (silica and pptd. BaSO4) and (silica and pptd. CaCO3) and NCO in the  
isocyanate compds. in the primer layer and active H in the vinyl  
acetate-vinyl chloride copolymer produce urethane bonds. Thus, one side  
of a sheet of 8/2 mixt. of **isotactic polypropylene** and  
**atactic polypropylene** contg. 0.2% benzotriazole UV  
**absorber** was treated with corona discharge and a primer layer  
contg. silica, pptd. BaSO4, and maleic acid-vinyl acetate-vinyl  
chloride-hexamethylene diisocyanate copolymer binder was formed on the

- treated side to give an intermediate sheet. Then, the other side of the intermediate sheet was corona-discharged and successively gravure-printed to form a decorative layer and finish coating layer to give title decorative sheet showing good blocking resistance and good adhesion in laminating on a plywood substrate through a vinyl acetate polymer adhesive.
- ST polyolefin decorative sheet primer polyisocyanate crosslinking; gravure printability decorative polyolefin sheet; **isotactic atactic polypropylene** mixt decorative sheet; outmost primer filler pigment decorative sheet; silica barium sulfate calcium carbonate pigment; vinyl acetate hexamethylene diisocyanate copolymer primer; plywood substrate adhesion polyolefin decorative sheet
- IT Construction materials  
(decorative boards; polyolefin decorative sheets having polyisocyanate-crosslinked vinyl acetate copolymer primer layer contg. filler pigments)
- IT Wood  
(plywood, substrate; polyolefin decorative sheets having polyisocyanate-crosslinked vinyl acetate copolymer primer layer contg. filler pigments with improved adhesion to)
- IT Fillers  
Pigments, nonbiological  
(polyolefin decorative sheets having polyisocyanate-crosslinked vinyl acetate copolymer primer layer contg. filler pigments)
- IT Polyolefins  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyolefin decorative sheets having polyisocyanate-crosslinked vinyl acetate copolymer primer layer contg. filler pigments)
- IT Crosslinking  
(polyolefin decorative sheets having polyisocyanate-crosslinked vinyl acetate copolymer primer layer contg. filler pigments with improved adhesion to)
- IT Gravure printing  
(polyolefin decorative sheets having polyisocyanate-crosslinked vinyl acetate copolymer primer layer contg. filler pigments with printability)
- IT Adhesives  
(primers; polyolefin decorative sheets having polyisocyanate-crosslinked vinyl acetate copolymer primer layer contg. filler pigments)
- IT 9003-07-0, **Atactic polypropylene**  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(polyolefin decorative sheets having polyisocyanate-crosslinked vinyl acetate copolymer primer layer contg. filler pigments)
- IT 471-34-1, Calcium carbonate, uses 7631-86-9, Silica, uses 7727-43-7, Barium sulfate  
RL: MOA (Modifier or additive use); USES (Uses)  
(powd., pigment; polyolefin decorative sheets having polyisocyanate-crosslinked vinyl acetate copolymer primer layer contg. filler pigments)
- IT 25085-53-4, **Isotactic polypropylene**  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(powd., pigment; polyolefin decorative sheets having polyisocyanate-crosslinked vinyl acetate copolymer primer layer contg. filler pigments)
- IT 246857-13-6P, Hexamethylene diisocyanate-maleic anhydride-vinyl acetate-vinyl chloride copolymer  
RL: IMF (Industrial manufacture); TEM (Technical or engineered material

use); PREP (Preparation); USES (Uses)  
(primer; polyolefin decorative sheets having polyisocyanate-crosslinked  
vinyl acetate copolymer primer layer contg. filler pigments)

L59 ANSWER 14 OF 43 HCAPLUS COPYRIGHT 2002 ACS

AN 1999:518630 HCAPLUS

DN 131:158591

TI Bleed-, heat-, and weather-resistant transparent propylene polymer  
decorative sheets having good thermoformability

IN Nezu, Yoshiaki; Fujita, Toshiko

PA Dainippon Printing Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM B32B027-32

ICS B32B027-00

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 39

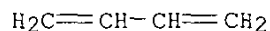
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11221889	A2	19990817	JP 1998-24894	19980205
OS	MARPAT 131:158591				
AB	Title decorative sheets, suitable for interiors for buildings or automobiles, etc., consist of (a) a colored film substrate comprising polypropylene (I), elastomers, colorants, and inorg. fillers, (b) a colorless or colored transparent surface film prepd. from flexible propylene (II) polymer compns., and (c) an optional decorative layer on the substrate and/or the surface film. Preferably, surface sheets comprise (i) 10-90% boiling heptane-sol. I polymers (Mn .gtoreq.25,000; Mw/Mn .ltoreq.7) prepd. by polymn. in the presence of catalysts comprising organoaluminums, benzene derivs. having C1-20 alkyl groups and optionally C1-20 hydrocarbyl groups, OH, or NO2, and solid components (contg. Mg, Ti, halogens, and electron donors) and (ii) 10-90% boiling heptane-insol. II polymers (MI 0.1-4 g/10 min). Thus, a gravure-printed substrate (prepd. from isotactic I 60, styrene-butadiene rubber 30, CaCO3 10, and colorant 5 parts) was dry-laminated with a surface film prepd. from a compn. contg. 50:50 isotactic I-atactic I mixt. and 3000 ppm OH-contg. benzotriazole deriv. on the printed side, embossed, and coated with a soln. contg. 100 parts acrylic polyol, 8 parts HDI, and 5% SiO2 to give a decorative sheet showing peel strength 2.2 kg/in. after 1000-h weathering test and shrinkage rate (at 100.degree. for 30 min) in the machine and transverse directions of -0.7% and +0.6%, resp.				
ST	<b>isotactic polypropylene</b> decorative sheet weather resistance; polyolefin sheet bleed resistance building interior; styrene butadiene rubber transparent decorative sheet; multilayer polyolefin decorative sheet automobile interior; <b>atactic polypropylene</b> blend decorative sheet thermoformability; Ziegler catalyst propylene polymer decorative sheet				
IT	Polymerization catalysts (Ziegler-Natta; bleed-, heat-, and weather-resistant transparent propylene polymer decorative sheets having good thermoformability)				
IT	Polyurethanes, uses RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (acrylic, top-coat layer; bleed-, heat-, and weather-resistant transparent propylene polymer decorative sheets having good thermoformability)				
IT	Heat-resistant materials				

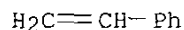


- (bleed-, heat-, and weather-resistant transparent propylene polymer decorative sheets having good thermoformability)
- IT Laminated plastics, uses  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(bleed-, heat-, and weather-resistant transparent propylene polymer decorative sheets having good thermoformability)
- IT Construction materials  
(decorative boards; bleed-, heat-, and weather-resistant transparent propylene polymer decorative sheets having good thermoformability)
- IT Automobiles  
(interior parts; bleed-, heat-, and weather-resistant transparent propylene polymer decorative sheets having good thermoformability)
- IT UV stabilizers  
(org., OH-contg., surface film; bleed-, heat-, and weather-resistant transparent propylene polymer decorative sheets having good thermoformability)
- IT Styrene-butadiene rubber, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(substrate; bleed-, heat-, and weather-resistant transparent propylene polymer decorative sheets having good thermoformability)
- IT Polymer blends  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(surface film; bleed-, heat-, and weather-resistant transparent propylene polymer decorative sheets having good thermoformability)
- IT Coating materials  
(topcoats, NCO-contg.; bleed-, heat-, and weather-resistant transparent propylene polymer decorative sheets having good thermoformability)
- IT Coating materials  
(weather-resistant; bleed-, heat-, and weather-resistant transparent propylene polymer decorative sheets having good thermoformability)
- IT 95-14-7D, 1H-Benzotriazole, derivs.  
RL: MOA (Modifier or additive use); USES (Uses)  
(UV absorber, surface film; bleed-, heat-, and weather-resistant transparent propylene polymer decorative sheets having good thermoformability)
- IT 9003-55-8  
RL: MOA (Modifier or additive use); USES (Uses)  
(styrene-butadiene rubber, substrate; bleed-, heat-, and weather-resistant transparent propylene polymer decorative sheets having good thermoformability)
- IT 1309-37-1, Iron oxide (Fe2O3), uses 13463-67-7, Titanium oxide (TiO2), uses 83383-11-3, Yellow lead  
RL: MOA (Modifier or additive use); USES (Uses)  
(substrate, colorant; bleed-, heat-, and weather-resistant transparent propylene polymer decorative sheets having good thermoformability)
- IT 471-34-1, Calcium carbonate, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(substrate, filler; bleed-, heat-, and weather-resistant transparent propylene polymer decorative sheets having good thermoformability)
- IT 9003-07-0, Polypropylene 25085-53-4  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(substrate; bleed-, heat-, and weather-resistant transparent propylene polymer decorative sheets having good thermoformability)
- IT 822-06-0D, HDI, polymer with acrylic polyols  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(top-coat layer; bleed-, heat-, and weather-resistant transparent

propylene polymer decorative sheets having good thermoformability)  
 IT 9003-55-8  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (styrene-butadiene rubber, substrate; bleed-, heat-, and  
 weather-resistant transparent propylene polymer decorative sheets  
 having good thermoformability)  
 RN 9003-55-8 HCAPLUS  
 CN Benzene, ethenyl-, polymer with 1,3-butadiene (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 106-99-0  
 CMF C4 H6



CM 2  
 CRN 100-42-5  
 CMF C8 H8



L59 ANSWER 15 OF 43 HCAPLUS COPYRIGHT 2002 ACS  
 AN 1999:481018 HCAPLUS  
 DN 131:131162  
 TI Decorative polyolefin elastomer sheet with good heat and weather  
 resistance and durability  
 IN Shimizu, Kazuhiko  
 PA Dainippon Printing Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM B32B027-00  
 ICS B32B027-18; B32B027-32; B32B033-00; C09K003-00; C09K015-30;  
 E04F013-00  
 CC 39-15 (Synthetic Elastomers and Natural Rubber)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11207876	A2	19990803	JP 1998-17466	19980129
AB	<p>The sheet comprises decorated thermoplastic polyolefin elastomer base sheet (A) contg. inorg. UV <b>absorbers</b>. Alternatively, the sheet comprises A, a printed layer, and a transparent surface protective sheet contg. thermoplastic polyolefin elastomer and inorg. UV <b>absorber</b>. Thus, primer-treated thermoplastic polyolefin elastomer sheet (contg. HDPE 60, SBR 30, CaCO3 10, and pigments 5 parts) was printed, laminated with a protective sheet contg. polyolefin elastomer (comprising 80 parts <b>isotactic polypropylene</b> segment and 20 parts <b>atactic polypropylene</b> segment), 3 phr ultrafine TiO2 particle, and 0.5 phr hindered amine radical scavenger, embossed, and topcoated to give a decorative sheet showing good weather resistance.</p>				
ST	decorative sheet polyolefin elastomer UV <b>absorber</b> ; thermoplastic				

polyolefin elastomer sheet UV **absorber**; polypropylene elastomer sheet titania UV **absorber**; HDPE SBR decorative sheet UV **absorber**; heat weather resistant decorative sheet elastomer

IT Construction materials  
(decorative boards; decorative polyolefin elastomer sheets with good heat and weather resistance and durability)

IT Styrene-butadiene rubber, properties  
Thermoplastic rubber  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(decorative polyolefin elastomer sheets with good heat and weather resistance and durability)

IT Radical scavengers  
(hindered amines; decorative polyolefin elastomer sheets with good heat and weather resistance and durability)

IT Amines, properties  
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(hindered, radical scavengers; decorative polyolefin elastomer sheets with good heat and weather resistance and durability)

IT UV stabilizers  
(inorg.; decorative polyolefin elastomer sheets with good heat and weather resistance and durability)

IT Polyolefin rubber  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(propene, isotactic-atactic; decorative polyolefin elastomer sheets with good heat and weather resistance and durability)

IT 13463-67-7, Titanium oxide, properties  
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(UV **absorber**; decorative polyolefin elastomer sheets with good heat and weather resistance and durability)

IT 9002-88-4, HDPE  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(decorative polyolefin elastomer sheets with good heat and weather resistance and durability)

IT 9003-07-0, **Polypropylene**  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(rubber, **isotactic-atactic**; decorative polyolefin elastomer sheets with good heat and weather resistance and durability)

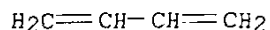
IT 9003-55-8  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(styrene-butadiene rubber, decorative polyolefin elastomer sheets with good heat and weather resistance and durability)

IT 9003-55-8  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(styrene-butadiene rubber, decorative polyolefin elastomer sheets with good heat and weather resistance and durability)

RN 9003-55-8 HCAPLUS  
CN Benzene, ethenyl-, polymer with 1,3-butadiene (9CI) (CA INDEX NAME)

CM 1

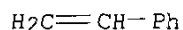
CRN 106-99-0  
CMF C4 H6



CM 2

CRN 100-42-5

CMF C8 H8



L59 ANSWER 16 OF 43 HCAPLUS COPYRIGHT 2002 ACS

AN 1999:462976 HCAPLUS

DN 131:103420

TI Thermoplastic polyolefin elastomer-based decorative sheets with improved light resistance

IN Shimizu, Kazuhiko; Senbara, Kenshiro; Takahashi, Hiroaki; Kono, Kazuyasu

PA Dainippon Printing Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM B32B027-32

ICS B32B007-12; B32B027-00; B32B027-40; B32B033-00

CC 39-15 (Synthetic Elastomers and Natural Rubber)

FAN.CNT 1

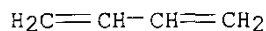
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11198309	A2	19990727	JP 1998-21583	19980120
AB	Title sheets consist of a substrate, first primer layer, a printing layer, second primer layer, an <b>adhesive</b> layer, and a transparent surface layer in this order, where the substrate and the surface layer are composed of thermoplastic polyolefin elastomers, the first primer layer is composed of 2-liq. curable polyester-polyurethanes, the printing layer is composed of acrylic-polyurethane inks, and the second primer layer is composed of polyester polyols. Thus, a thermoplastic olefin elastomer substrate comprising <b>isotactic polypropylene</b> 100, SBR rubber 100, CaCO <sub>3</sub> 30, and pigments 10 parts was treated with corona discharge, coated with a primer soln. (polyester polyol-TDI mixt.), gravure-printed with an ink contg. a polyurethane-acrylic block copolymer binder, further coated with a polyester polyol primer, and then the backside of the substrate was coated with an acrylic polyol-TDI mixt. primer. Then a transparent sheet comprising a 60:40 <b>isotactic polypropylene-atactic polypropylene</b> mixt. contg. benzotriazole-type UV <b>absorber</b> was corona-treated, coated with an acrylic polyol-HMDI mixt. <b>adhesive</b> , and laminated on the surface of the printed sheet to give a decorative sheet showing no interlayer peeling after irradiation of UV for 200 h.				
ST	decorative polyolefin elastomer laminate UV resistance; acrylic block polyurethane ink decorative laminate; thermoplastic polypropylene elastomer decorative laminate; polyester polyurethane primer decorative laminate				
IT	Polyurethanes, properties RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (acrylic, <b>adhesives</b> ; thermoplastic polyolefin-based decorative laminates with good light resistance)				

- IT Polyurethanes, properties  
RL: PRP (Properties); TEM (Technical or engineered material use); USES  
(Uses)  
(acrylic, block, ink binders; thermoplastic polyolefin-based decorative laminates with good light resistance)
- IT Inks  
(acrylic-polyurethanes; thermoplastic polyolefin-based decorative laminates with good light resistance)
- IT Construction materials  
(decorative; thermoplastic polyolefin-based decorative laminates with good light resistance)
- IT Polyesters, properties  
RL: PRP (Properties); TEM (Technical or engineered material use); USES  
(Uses)  
(hydroxy-terminated, primers; thermoplastic polyolefin-based decorative laminates with good light resistance)
- IT Polyurethanes, properties  
RL: PRP (Properties); TEM (Technical or engineered material use); USES  
(Uses)  
(polyester-, primers; thermoplastic polyolefin-based decorative laminates with good light resistance)
- IT Primers (paints)  
(polyester-polyurethanes and polyester polyols; thermoplastic polyolefin-based decorative laminates with good light resistance)
- IT Polymer blends  
RL: PRP (Properties); TEM (Technical or engineered material use); USES  
(Uses)  
(polypropylene blends, thermoplastic elastomer; thermoplastic polyolefin-based decorative laminates with good light resistance)
- IT Acrylic polymers, properties  
RL: PRP (Properties); TEM (Technical or engineered material use); USES  
(Uses)  
(polyurethane-, **adhesives**; thermoplastic polyolefin-based decorative laminates with good light resistance)
- IT Polyolefin rubber  
RL: PRP (Properties); TEM (Technical or engineered material use); USES  
(Uses)  
(propene; thermoplastic polyolefin-based decorative laminates with good light resistance)
- IT Styrene-butadiene rubber, properties  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(thermoplastic elastomers contg.; thermoplastic polyolefin-based decorative laminates with good light resistance)
- IT Light-resistant materials  
(thermoplastic polyolefin-based decorative laminates with good light resistance)
- IT Laminated plastics, properties  
Thermoplastic rubber  
RL: PRP (Properties); TEM (Technical or engineered material use); USES  
(Uses)  
(thermoplastic polyolefin-based decorative laminates with good light resistance)
- IT **Adhesives**  
(two-component, polyurethanes; thermoplastic polyolefin-based decorative laminates with good light resistance)
- IT 822-06-0D, Hexamethylene diisocyanate, polymers  
RL: PRP (Properties); TEM (Technical or engineered material use); USES  
(Uses)  
(**adhesives** and ink binders; thermoplastic polyolefin-based

- decorative laminates with good light resistance)
- IT 97-88-1D, Butyl methacrylate, block copolymers with azo-polyurethanes  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(ink binders; thermoplastic polyolefin-based decorative laminates with good light resistance)
- IT 26471-62-5D, TDI, polymers with polyester polyols or acrylic polyols  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(primers; thermoplastic polyolefin-based decorative laminates with good light resistance)
- IT 9003-55-8  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(styrene-butadiene rubber, thermoplastic elastomers contg.; thermoplastic polyolefin-based decorative laminates with good light resistance)
- IT 9003-07-0, Polypropylene 25085-53-4, **Isotactic polypropylene**  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(thermoplastic elastomers contg.; thermoplastic polyolefin-based decorative laminates with good light resistance)
- IT 9003-55-8  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(styrene-butadiene rubber, thermoplastic elastomers contg.; thermoplastic polyolefin-based decorative laminates with good light resistance)
- RN 9003-55-8 HCAPLUS
- CN Benzene, ethenyl-, polymer with 1,3-butadiene (9CI) (CA INDEX NAME)

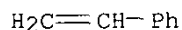
CM 1

CRN 106-99-0  
CMF C4 H6



CM 2

CRN 100-42-5  
CMF C8 H8



L59 ANSWER 17 OF 43 HCAPLUS COPYRIGHT 2002 ACS  
AN 1999:431764 HCAPLUS  
DN 131:88839  
TI **Composite** decorative sheets and their preparation  
IN Yoshikawa, Hirohisa  
PA Dainippon Printing Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 9 pp.  
CODEN: JKXXAF

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

DT Patent  
 LA Japanese  
 IC ICM B32B027-32  
 ICS B32B027-40  
 CC 38-3 (Plastics Fabrication and Uses)  
 Section cross-reference(s): 39, 58

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11188821	A2	19990713	JP 1997-359640	19971226
AB	Title sheets with improved UV-peel resistance comprise (1) a polyolefin base layer, (2) a pattern layer formed with inks contg. polyurethane-acrylic block copolymers prepd. by polymn. of polyurethane-azo polymers (azo diol-diol-diisocyanate adducts) and acrylic monomers, (3) an <b>adhesive</b> layer of 2-component curable polyurethanes, and (4) a polyolefin top layer in this order and are prepd. by processes contg. at least (1) forming the pattern layer by printing, (2) applying the <b>adhesive</b> on the pattern layer, and (3) laminating the top polyolefin layer on the <b>adhesive</b> layer. Thus, a thermoplastic olefin elastomer base layer comprising 80% <b>isotactic polypropylene</b> and 20% <b>atactic polypropylene</b> was treated with corona discharge, gravure-printed with an ink contg. a block copolymer comprising 20% of a polyurethane-azo polymer and 80% of Bu acrylate, further coated with 2-component <b>adhesive</b> comprising acrylic polyol and HMDI, and then laminated with a top film of polypropylene which contained 0.5% hindered amine radical scavenger and 0.5% benzotriazole UV <b>absorber</b> . The <b>composite</b> film was irradiated with UV for 400 h to show peel strength 3-3.5 kg/in.				
ST	decorative polyolefin laminate UV resistance; acrylic block polyurethane ink decorative laminate; thermoplastic polypropylene elastomer decorative laminate				
IT	Polyurethanes, uses RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (acrylic, <b>adhesives</b> ; polyolefin-based decorative laminates with good interlayer adhesion)				
IT	Polyurethanes, uses RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (acrylic, block, ink binders; polyolefin-based decorative laminates with good interlayer adhesion)				
IT	Inks (block acrylic-polyurethanes; polyolefin-based decorative laminates with good interlayer adhesion)				
IT	Construction materials (decorative; polyolefin-based decorative laminates with good interlayer adhesion)				
IT	Polyurethanes, uses RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (polyester-, <b>adhesives</b> ; polyolefin-based decorative laminates with good interlayer adhesion)				
IT	Light-resistant materials (polyolefin-based decorative laminates with good interlayer adhesion)				
IT	Laminated plastics, uses Polyolefins Thermoplastic rubber RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)				

- (polyolefin-based decorative laminates with good interlayer adhesion)
- IT Polymer blends  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(polypropylene blends, thermoplastic elastomer; polyolefin-based decorative laminates with good interlayer adhesion)
- IT Acrylic polymers, uses  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(polyurethane-, **adhesives**; polyolefin-based decorative laminates with good interlayer adhesion)
- IT Polyolefin rubber  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(propene; polyolefin-based decorative laminates with good interlayer adhesion)
- IT **Adhesives**  
(two-component, polyurethanes; polyolefin-based decorative laminates with good interlayer adhesion)
- IT 822-06-0D, Hexamethylene diisocyanate, polymers with polyols  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(**adhesives**; polyolefin-based decorative laminates with good interlayer adhesion)
- IT 141-32-2D, Butyl acrylate, block copolymers with azo-polyurethanes  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(ink binders; polyolefin-based decorative laminates with good interlayer adhesion)
- IT 9002-88-4, HDPE 9003-07-0, Polypropylene 25085-53-4, **Isotactic polypropylene**  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(thermoplastic elastomers contg.; polyolefin-based decorative laminates with good interlayer adhesion)

L59 ANSWER 18 OF 43 HCAPLUS COPYRIGHT 2002 ACS

AN 1999:40103 HCAPLUS

DN 130:96656

TI Polypropylene **composite**

IN Poldervaart, Thomas

PA Rico-Pack GmbH, Germany

SO Eur. Pat. Appl., 6 pp.

CODEN: EPXXDW

DT Patent

LA German

IC ICM B32B027-32

ICS B32B027-12

CC 38-3 (Plastics Fabrication and Uses)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 888883	A2	19990107	EP 1998-112183	19980701
	EP 888883	A3	20000405		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	DE 1997-29711576		19970702		
AB	Polypropylene <b>composites</b> are based on a sheet of polypropylene which is covered on one or both sides and incorporates at least one <b>nonwoven</b> fabric comprised of at least 2 components and optionally				



a foam layer, all based on polypropylene. The **composites** may be assembled using **adhesives** and have lower surface wt. and are better protected than prior-art materials and are suitable for recycling; no heating is required in their assembly but they may be hot molded or welded.

ST polypropylene **composite** laminate

IT Polyolefins  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (adhesives; in polypropylene **composites** based on sheet, film, **nonwoven** and foam layers)

IT Polypropene fibers, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (in polypropylene **composites** based on sheet, film, **nonwoven** and foam layers)

IT **Adhesives**  
 (polyolefin-based; in polypropylene **composites** based on sheet, film, **nonwoven** and foam layers)

IT 25085-53-4, Isotactic polypropylene  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (fiber; in **composites** based on sheet, film, **nonwoven** and foam layers)

IT 9003-07-0, Polypropylene  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (in **composites** based on sheet, film, **nonwoven** and foam layers)

IT 25085-53-4, Isotactic polypropylene  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (fiber; in **composites** based on sheet, film, **nonwoven** and foam layers)

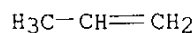
RN 25085-53-4 HCAPLUS

CN 1-Propene, homopolymer, isotactic (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6



IT 9003-07-0, Polypropylene  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (in **composites** based on sheet, film, **nonwoven** and foam layers)

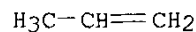
RN 9003-07-0 HCAPLUS

CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6



DN 131:243943  
 TI Preparation of super water repellent polymer  
 AU Ono, Takuyuki; Takahashi, Tsutomu  
 CS Dept. of General Science, Miyagi National College of Technology, Japan  
 SO Kenkyu Kiyo - Miyagi Kogyo Koto Senmon Gakko (1999), 35, 63-68  
 CODEN: KKMGGP; ISSN: 0286-3707  
 PB Miyagi Kogyo Koto Senmon Gakko  
 DT Journal  
 LA Japanese  
 CC 37-3 (Plastics Manufacture and Processing)  
 AB The surface of polypropylene sheet was polished by the use of sand paper and the fine uneven structures were formed on the surface. Alkyl ketene dimer was crystd. from the molten state on the surface. The contact angle for water of these samples was measured and then the micro-rough surface structure was obsd. under scanning electron microscope. The crystal structure of alkyl ketene dimer on the surface varied with the kind of the base materials such as glass, polypropylene, the coarseness of the surface, the rate and no. of recrystn. The max. value of the contact angle for water of these samples was 153.degree. and these **composite** films showed excellent mech. properties. From these results, the polypropylene/alkyl ketene dimer **composite** films were found out to be super water repellent materials.  
 ST polymer super water repellent; polypropylene super water repellent  
 IT Polyesters, properties  
 RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)  
 (caprolactone-based, in polypropylene; prepn. of super water repellent polymer)  
 IT Polyurethanes, properties  
 RL: PRP (Properties)  
 (foam; prepn. of super water repellent polymer)  
 IT Fluoropolymers, properties  
 RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)  
 (in polypropylene; prepn. of super water repellent polymer)  
 IT Shellac  
 RL: PRP (Properties)  
 (in polypropylene; prepn. of super water repellent polymer)  
 IT Polypropene fibers, properties  
 RL: PRP (Properties)  
 (nonwoven fabric; prepn. of super water repellent polymer)  
 IT Contact angle  
 Polymer morphology  
 (prepn. of super water repellent polymer)  
 IT Acrylic fibers, properties  
 Butyl rubber, properties  
 Ethylene-propylene rubber  
 Fluoropolymers, properties  
 Polyamides, properties  
 Polyesters, properties  
 Styrene-butadiene rubber, properties  
 RL: PRP (Properties)  
 (prepn. of super water repellent polymer)  
 IT 9010-85-9  
 RL: PRP (Properties)  
 (butyl rubber, prepn. of super water repellent polymer)  
 IT 9010-79-1  
 RL: PRP (Properties)  
 (ethylene-propylene rubber, prepn. of super water repellent polymer)  
 IT 9002-88-4, Polyethylene  
 RL: PRP (Properties)  
 (foam; prepn. of super water repellent polymer)

IT 9002-84-0, PTFE 24980-41-4, Poly(.epsilon.-caprolactone) 25248-42-4,  
Poly[oxy(1-oxo-1,6-hexanediyl)]  
RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)  
(in polypropylene; prepn. of super water repellent polymer)

IT 471-34-1, Calcium carbonate, properties 674-82-8D, Ketene dimer, alkyl  
derivs.  
RL: PRP (Properties)  
(in polypropylene; prepn. of super water repellent polymer)

IT 25085-53-4, Isotactic polypropylene  
RL: PRP (Properties)  
(nonwoven fabric; prepn. of super water repellent polymer)

IT 9003-07-0, 4800JG  
RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)  
(prepn. of super water repellent polymer)

IT 9003-56-9, ABS 25038-54-4, Nylon 6, properties 25038-59-9, PET  
polyester, properties  
RL: PRP (Properties)  
(prepn. of super water repellent polymer)

IT 9010-79-1, Ethylene-propylene copolymer  
RL: PRP (Properties)  
(rubber; prepn. of super water repellent polymer)

IT 9003-55-8  
RL: PRP (Properties)  
(styrene-butadiene rubber, prepn. of super water repellent polymer)

IT 25085-53-4, Isotactic polypropylene  
RL: PRP (Properties)  
(nonwoven fabric; prepn. of super water repellent polymer)

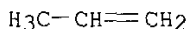
RN 25085-53-4 HCAPLUS

CN 1-Propene, homopolymer, isotactic (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6



IT 9003-07-0, 4800JG  
RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)  
(prepn. of super water repellent polymer)

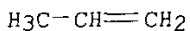
RN 9003-07-0 HCAPLUS

CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6



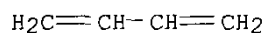
IT 9003-55-8  
RL: PRP (Properties)  
(styrene-butadiene rubber, prepn. of super water repellent polymer)

RN 9003-55-8 HCAPLUS

CN Benzene, ethenyl-, polymer with 1,3-butadiene (9CI) (CA INDEX NAME)

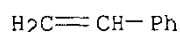
CM 1

CRN 106-99-0  
CMF C4 H6



CM 2

CRN 100-42-5  
CMF C8 H8



L59 ANSWER 20 OF 43 HCAPLUS COPYRIGHT 2002 ACS

AN 1998:163519 HCAPLUS

DN 128:181392

TI A **composite laminated** sheet comprising a **nonwoven** fabric and a thermoplastic crystalline film

IN Noma, Takeshi; Horiuchi, Shingo; Tsujiyama, Yoshimi

PA Chisso Corporation, Japan; Noma, Takeshi; Horiuchi, Shingo; Tsujiyama, Yoshimi

SO PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM B32B027-12

ICS D04H013-00

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 40, 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9808680	A1	19980305	WO 1997-JP2901	19970820
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9738674	A1	19980319	AU 1997-38674	19970820
	DE 19781951	T	19990812	DE 1997-19781951	19970820
	CN 1228735	A	19990915	CN 1997-197494	19970820
	JP 2001500437	T2	20010116	JP 1998-511456	19970820
	US 6271155	B1	20010807	US 1999-245649	19990208
PRAI	JP 1996-224138	A	19960826		
	WO 1997-JP2901	W	19970820		

AB The sheet comprises a thermoplastic cryst. film and a **nonwoven** fabric having a thermoplastic conjugated fiber comprising a low m.p. component and a high m.p. component, in which the difference in the m.p. between the low m.p. component and the high m.p. component is .gtoreq.10.degree.; the difference in the m.p. between the thermoplastic

- cryst. film and the low m.p. component of the conjugated fiber is .ltoreq.30.degree.; and the temp. of the position corresponding to 10% of the area from the side of the melting starting point of the endothermic peak of an entire conjugated fiber evaluated by DSC is between the melting starting point and the melting completion point of the endothermic peak of the film. A **composite** sheet is provided in which a **nonwoven** fabric and a film are adhered without **adhesives**, the appearance is excellent, and the **adhesive** strength between the **nonwoven** fabric and the film is high. The **composite** sheet can be used for waterproof sheets, for example, paper **diapers** or sanitary napkins or the like.
- ST LLDPE **nonwoven laminated** sheet; polypropylene **nonwoven laminated** sheet; waterproof **nonwoven fabric laminated** sheet; paper **diaper nonwoven fabric laminated** sheet; thermal adhesion bonding **nonwoven** thermoplastic film; core shell polypropylene LLDPE fiber
- IT Polyolefin fibers  
Polyolefin fibers  
Polypropene fibers, uses  
Polypropene fibers, uses  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(butene-ethylene-propene; **composite laminated** sheet contg. **nonwoven** fabrics and thermoplastic cryst. films with good appearance)
- IT Polyolefin fibers  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(butene-ethylene; **composite laminated** sheet contg. **nonwoven** fabrics and thermoplastic cryst. films with good appearance)
- IT Polyolefin fibers  
Polyolefin fibers  
Polypropene fibers, uses  
Polypropene fibers, uses  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(butene-propene; **composite laminated** sheet contg. **nonwoven** fabrics and thermoplastic cryst. films with good appearance)
- IT **Disposable diapers**  
**Laminated materials**  
**Nonwoven fabrics**  
(**composite laminated** sheet contg. **nonwoven** fabrics and thermoplastic cryst. films with good appearance)
- IT Linear low density polyethylenes  
Polyester fibers, uses  
Polyolefins  
Polypropene fibers, uses  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(**composite laminated** sheet contg. **nonwoven** fabrics and thermoplastic cryst. films with good appearance)
- IT Polyolefin fibers  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(ethylene copolymers, linear low-d.; **composite laminated** sheet contg. **nonwoven** fabrics and thermoplastic cryst. films with good appearance)
- IT Polyolefin fibers

- RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(ethylene, high-d.; **composite laminated** sheet  
contg. **nonwoven** fabrics and thermoplastic cryst. films with  
good appearance)
- IT Polyolefin fibers  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(ethylene-octene; **composite laminated** sheet contg.  
**nonwoven** fabrics and thermoplastic cryst. films with good  
appearance)
- IT Polyolefin fibers  
Polypropene fibers, uses  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(ethylene-propene; **composite laminated** sheet contg.  
**nonwoven** fabrics and thermoplastic cryst. films with good  
appearance)
- IT Polyesters, uses  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(fibers; **composite laminated** sheet contg.  
**nonwoven** fabrics and thermoplastic cryst. films with good  
appearance)
- IT **Medical** goods  
(sanitary napkins; **composite laminated** sheet contg.  
**nonwoven** fabrics and thermoplastic cryst. films with good  
appearance)
- IT **Lamination**  
(thermal adhesion bonding; **composite laminated**  
sheet contg. **nonwoven** fabrics and thermoplastic cryst. films  
with good appearance)
- IT Plastic films  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(thermo-; **composite laminated** sheet contg.  
**nonwoven** fabrics and thermoplastic cryst. films with good  
appearance)
- IT 9010-79-1, Ethylene-propylene copolymer 29160-13-2, 1-Butene-propylene  
copolymer  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(**composite laminated** sheet contg. **nonwoven**  
fabrics and thermoplastic cryst. films with good appearance)
- IT 9002-88-4, HDPE 25038-59-9, PET polyester, uses **25085-53-4**  
25087-34-7, 1-Butene-ethylene copolymer 25895-47-0, 1-Butene-ethylene-  
propylene copolymer 26221-73-8  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(fibers; **composite laminated** sheet contg.  
**nonwoven** fabrics and thermoplastic cryst. films with good  
appearance)
- IT **9003-07-0**, Polypropylene  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(film; **composite laminated** sheet contg.  
**nonwoven** fabrics and thermoplastic cryst. films with good  
appearance)
- IT **25085-53-4**  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM

(Technical or engineered material use); PROC (Process); USES (Uses)  
 (fibers; **composite laminated** sheet contg.  
**nonwoven** fabrics and thermoplastic cryst. films with good  
 appearance)  
 RN 25085-53-4 HCAPLUS  
 CN 1-Propene, homopolymer, isotactic (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 115-07-1  
 CMF C3 H6

$\text{H}_3\text{C}-\text{CH}=\text{CH}_2$

IT 9003-07-0, Polypropylene  
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM  
 (Technical or engineered material use); PROC (Process); USES (Uses)  
 (film; **composite laminated** sheet contg.  
**nonwoven** fabrics and thermoplastic cryst. films with good  
 appearance)  
 RN 9003-07-0 HCAPLUS  
 CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 115-07-1  
 CMF C3 H6

$\text{H}_3\text{C}-\text{CH}=\text{CH}_2$

L59 ANSWER 21 OF 43 HCAPLUS COPYRIGHT 2002 ACS  
 AN 1998:774195 HCAPLUS  
 DN 130:14762  
 TI Manufacture of foamed polymeric sheets, films, strands and filament mats  
 for removal of organic contaminants  
 IN Miller, Gerald W.  
 PA Hitech Polymers Inc., USA  
 SO U.S., 7 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 IC ICM C08L063-00  
 NCL 442062000  
 CC 38-3 (Plastics Fabrication and Uses)  
 Section cross-reference(s): 40  
 FAN.CNT 1  

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5840632	A	19981124	US 1996-723388	19960930
AB	A foamed sheet, film, strand, or filament mat having capable of <b>absorbing</b> .gtoreq.90% org. contaminants from contaminated materials in fluent form (such as liq., gas, or soil), is manufd. from a compn. contg. 5-49% polystyrene, polypropylene, or other polymer; 0-1% blowing agent such as sodium tetraborate; and .gtoreq.50% elastomeric material.				

ST foamed sheet removal org contaminant **absorbent**; polystyrene  
rubber film removal org contaminant; polypropylene fiber rubber mat  
removal org contaminant

IT Isoprene-styrene rubber  
Styrene-butadiene rubber, uses  
RL: POF (Polymer in formulation); TEM (Technical or engineered material  
use); USES (Uses)  
(block, triblock; manuf. of foamed polymeric sheets, films, strands and  
filament mats for removal of org. contaminants)

IT Polyolefin rubber  
RL: POF (Polymer in formulation); TEM (Technical or engineered material  
use); USES (Uses)  
(ethylene-hexene; manuf. of foamed polymeric sheets, films, strands and  
filament mats for removal of org. contaminants)

IT Polyolefin rubber  
RL: POF (Polymer in formulation); TEM (Technical or engineered material  
use); USES (Uses)  
(ethylene-octene; manuf. of foamed polymeric sheets, films, strands and  
filament mats for removal of org. contaminants)

IT Plastic films  
(foamed; manuf. of foamed polymeric sheets, films, strands and filament  
mats for removal of org. contaminants)

IT Styrene-butadiene rubber, uses  
RL: POF (Polymer in formulation); TEM (Technical or engineered material  
use); USES (Uses)  
(hydrogenated, block; manuf. of foamed polymeric sheets, films, strands  
and filament mats for removal of org. contaminants)

IT **Absorbents**  
Blowing agents  
(manuf. of foamed polymeric sheets, films, strands and filament mats  
for removal of org. contaminants)

IT Butylene-ethylene rubber  
EPDM rubber  
Isobutylene rubber  
Plastic foams  
Polypropene fibers, uses  
Rubber, uses  
Styrene-butadiene rubber, uses  
Thermoplastic rubber  
RL: POF (Polymer in formulation); TEM (Technical or engineered material  
use); USES (Uses)  
(manuf. of foamed polymeric sheets, films, strands and filament mats  
for removal of org. contaminants)

IT Filaments  
(mats; manuf. of foamed polymeric sheets, films, strands and filament  
mats for removal of org. contaminants)

IT Mats  
(**nonwoven**; manuf. of foamed polymeric sheets, films, strands  
and filament mats for removal of org. contaminants)

IT 1330-43-4, Sodium tetraborate  
RL: MOA (Modifier or additive use); USES (Uses)  
(blowing agent; manuf. of foamed polymeric sheets, films, strands and  
filament mats for removal of org. contaminants)

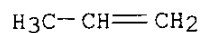
IT 25087-34-7  
RL: POF (Polymer in formulation); TEM (Technical or engineered material  
use); USES (Uses)  
(butylene-ethylene rubber, manuf. of foamed polymeric sheets, films,  
strands and filament mats for removal of org. contaminants)

IT **25085-53-4**  
RL: POF (Polymer in formulation); TEM (Technical or engineered material

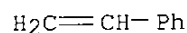


- use); USES (Uses)  
(fiber; manuf. of foamed polymeric sheets, films, strands and filament mats for removal of org. contaminants)
- IT 9003-27-4  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(isobutylene rubber, manuf. of foamed polymeric sheets, films, strands and filament mats for removal of org. contaminants)
- IT 105729-79-1  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(isoprene-styrene rubber, block, triblock; manuf. of foamed polymeric sheets, films, strands and filament mats for removal of org. contaminants)
- IT 9002-88-4 9003-07-0 9003-53-6  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(manuf. of foamed polymeric sheets, films, strands and filament mats for removal of org. contaminants)
- IT 25087-34-7 25213-02-9, Ethylene-1-hexene copolymer 26221-73-8  
106107-54-4D, Styrene-butadiene block copolymer, hydrogenated  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(rubber; manuf. of foamed polymeric sheets, films, strands and filament mats for removal of org. contaminants)
- IT 106107-54-4  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(styrene-butadiene rubber, block, triblock; manuf. of foamed polymeric sheets, films, strands and filament mats for removal of org. contaminants)
- IT 9003-55-8  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(styrene-butadiene rubber, hydrogenated, block; manuf. of foamed polymeric sheets, films, strands and filament mats for removal of org. contaminants)
- IT 9003-55-8  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(styrene-butadiene rubber, manuf. of foamed polymeric sheets, films, strands and filament mats for removal of org. contaminants)
- RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD  
RE  
(1) Anon; JP 135702 1978  
(2) Anon; JP 159155 1978  
(3) Anon; JP 789329 1987  
(4) Anon; EP 0518336 1992 HCAPLUS  
(5) Anon; Crowley Chemical Company Technical Bulletins "VESTOPLAST 608 and 750" VESTOPLAST 508 1995  
(6) Clampitt; US 3819514 1974 HCAPLUS  
(7) Dow Corning; "ENGAGE" product sheet 1995  
(8) Evans; US 3518183 1970 HCAPLUS  
(9) Exxon Chemical; "EXACTTM 4049" product sheet 1995  
(10) Fogg; US 4420573 1983 HCAPLUS  
(11) Forte; US 4167973 1979 HCAPLUS  
(12) Gabrick; US 4941978 1990  
(13) Gabrick; US 5104548 1992  
(14) Ignasiak; US 5019245 1991  
(15) Naito; US 3939237 1976

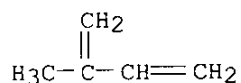
(16) Papier; US 4082660 1978 HCAPLUS  
 (17) Sugimori; US 4801386 1989 HCAPLUS  
 (18) Thirumalachar; US 4929341 1990 HCAPLUS  
 (19) Winkler; US 3929631 1975 HCAPLUS  
 IT 25085-53-4  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
 (fiber; manuf. of foamed polymeric sheets, films, strands and filament mats for removal of org. contaminants)  
 RN 25085-53-4 HCAPLUS  
 CN 1-Propene, homopolymer, isotactic (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 115-07-1  
 CMF C3 H6



IT 105729-79-1  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
 (isoprene-styrene rubber, block, triblock; manuf. of foamed polymeric sheets, films, strands and filament mats for removal of org. contaminants)  
 RN 105729-79-1 HCAPLUS  
 CN Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene, block (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 100-42-5  
 CMF C8 H8



CM 2  
 CRN 78-79-5  
 CMF C5 H8

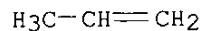


IT 9003-07-0  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
 (manuf. of foamed polymeric sheets, films, strands and filament mats for removal of org. contaminants)  
 RN 9003-07-0 HCAPLUS  
 CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6



IT 9003-55-8

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(styrene-butadiene rubber, hydrogenated, block; manuf. of foamed polymeric sheets, films, strands and filament mats for removal of org. contaminants)

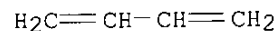
RN 9003-55-8 HCAPLUS

CN Benzene, ethenyl-, polymer with 1,3-butadiene (9CI) (CA INDEX NAME)

CM 1

CRN 106-99-0

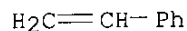
CMF C4 H6



CM 2

CRN 100-42-5

CMF C8 H8



RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(styrene-butadiene rubber, manuf. of foamed polymeric sheets, films, strands and filament mats for removal of org. contaminants)

L59 ANSWER 22 OF 43 HCAPLUS COPYRIGHT 2002 ACS

AN 1998:76138 HCAPLUS

DN 128:193528

TI Antiblocking, nonirritating, and stretchable **laminated** sheets and their manufacture

IN Sato, Shinya; Itabashi, Haruo; Kanai, Taeko

PA Kao Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM B32B005-26

ICS A61F005-44; A61F013-15; B32B027-12; A61F013-54

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 63, 67

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 10029259 A2 19980203 JP 1996-187663 19960717  
 JP 3054930 B2 20000619

AB The sheets, useful for back sheets of **disposable diapers**, have **nonwoven** fabric/elastomer film/**nonwoven** fabric structure, where the **nonwoven** fabrics are stretchable at least in transverse directions and **laminated** to fit the transverse directions, each layer is fixed at the same noncontinuous contacting points via the elastomer film, total area of the contacting points is .ltoreq.30 area% of the **laminates**, stretchability is .gtoreq.100 g/25 mm at 100% elongation, permanent set is .ltoreq.30% at 100% elongation, mass of the **nonwoven** fabrics is 15-50 g/m2, and mass of the elastomer film is 10-100 g/m2. Thermoplastic elastomers are made into films at a molten state, sandwiched with the **nonwoven** fabrics at a molten state, and then embossed by an embossing roll having noncontinuous patterns in a transverse direction to manuf. the title **laminates**. Thus, a **laminates** of Flexus CA 045 (43 g/m2 polypropylene spun-bond **nonwoven**) and EG 8200 (40 g/m2 film of ethylene-octene copolymer prep. by the use of metallocene catalyst) having contacting point area 6.3%, mass 90 g/m2, the stretchability 1015 g/25 m, and permanent set 14% showed good blocking resistance and no skin irritation.

ST polypropylene **nonwoven** elastomer **laminates** stretchable; nonirritating **laminates** polypropylene **nonwoven** elastomer; antiblocking **laminates** polypropylene **nonwoven** elastomer

IT Urethane rubber, uses  
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (E 3080AK; antiblocking, nonirritating, and stretchable **laminates** of **nonwovens** and elastomers)

IT **Disposable diapers**  
 (antiblocking, nonirritating, and stretchable **laminates** of **nonwovens** and elastomers)

IT Polyolefin rubber  
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (ethylene-octene, EG 8200; antiblocking, nonirritating, and stretchable **laminates** of **nonwovens** and elastomers)

IT Polypropene fibers, uses  
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (fabrics, **nonwoven**, Flexus CA 045; antiblocking, nonirritating, and stretchable **laminates** of **nonwovens** and elastomers)

IT Polyester fibers, uses  
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (fabrics, **nonwoven**; antiblocking, nonirritating, and stretchable **laminates** of **nonwovens** and elastomers)

IT Polyester fibers, uses  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (fabrics, **nonwoven**; antiblocking, nonirritating, and stretchable **laminates** of **nonwovens** and elastomers)

IT Polyesters, uses  
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (fiber, **nonwoven**; antiblocking, nonirritating, and stretchable **laminates** of **nonwovens** and elastomers)

IT Styrene-butadiene rubber, uses

RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM  
(Technical or engineered material use); PROC (Process); USES (Uses)  
(hydrogenated, block, triblock; antiblocking, nonirritating, and  
stretchable **laminates** of **nonwovens** and elastomers)

IT Polymerization catalysts  
(metallocene, for ethylene copolymer elastomer manuf.; antiblocking,  
nonirritating, and stretchable **laminates** of **nonwovens**  
and elastomers)

IT Polyethers, uses  
Polyethers, uses  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM  
(Technical or engineered material use); PROC (Process); USES (Uses)  
(polyester-, rubber; antiblocking, nonirritating, and stretchable  
**laminates** of **nonwovens** and elastomers)

IT Polyester rubber  
Polyester rubber  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM  
(Technical or engineered material use); PROC (Process); USES (Uses)  
(polyether-, block, Pelprene P 30B; antiblocking, nonirritating, and  
stretchable **laminates** of **nonwovens** and elastomers)

IT Polyesters, uses  
Polyesters, uses  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM  
(Technical or engineered material use); PROC (Process); USES (Uses)  
(polyether-, rubber; antiblocking, nonirritating, and stretchable  
**laminates** of **nonwovens** and elastomers)

IT 9003-07-0  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM  
(Technical or engineered material use); PROC (Process); USES (Uses)  
(antiblocking, nonirritating, and stretchable **laminates** of  
**nonwovens** and elastomers)

IT 25038-59-9, Poly(ethylene terephthalate), uses 25085-53-4,  
Isotactic polypropylene  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM  
(Technical or engineered material use); PROC (Process); USES (Uses)  
(fiber, **nonwoven**; antiblocking, nonirritating, and  
stretchable **laminates** of **nonwovens** and elastomers)

IT 26221-73-8, Ethylene-octene copolymer 70800-37-2, Ethylene-octene  
copolymer  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM  
(Technical or engineered material use); PROC (Process); USES (Uses)  
(rubber; antiblocking, nonirritating, and stretchable **laminates**  
of **nonwovens** and elastomers)

IT 9003-55-8  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM  
(Technical or engineered material use); PROC (Process); USES (Uses)  
(styrene-butadiene rubber, hydrogenated, block, triblock; antiblocking,  
nonirritating, and stretchable **laminates** of **nonwovens**  
and elastomers)

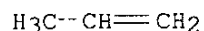
IT 9003-07-0  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM  
(Technical or engineered material use); PROC (Process); USES (Uses)  
(antiblocking, nonirritating, and stretchable **laminates** of  
**nonwovens** and elastomers)

RN 9003-07-0 HCAPLUS  
CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6

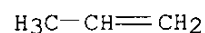


IT 25085-53-4, Isotactic polypropylene  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM  
(Technical or engineered material use); PROC (Process); USES (Uses)  
(fiber, **nonwoven**; antiblocking, nonirritating, and  
stretchable **laminates** of **nonwovens** and elastomers)  
RN 25085-53-4 HCAPLUS  
CN 1-Propene, homopolymer, isotactic (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6

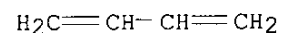


IT 9003-55-8  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM  
(Technical or engineered material use); PROC (Process); USES (Uses)  
(styrene-butadiene rubber, hydrogenated, block, triblock; antiblocking,  
nonirritating, and stretchable **laminates** of **nonwovens**  
and elastomers)  
RN 9003-55-8 HCAPLUS  
CN Benzene, ethenyl-, polymer with 1,3-butadiene (9CI) (CA INDEX NAME)

CM 1

CRN 106-99-0

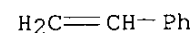
CMF C4 H6



CM 2

CRN 100-42-5

CMF C8 H8



L59 ANSWER 23 OF 43 WPIX (C) 2002 THOMSON DERWENT  
AN 1999-017726 [02] WPIX  
DNN N1999-014368 DNC C1999-005475  
TI Decorative sheet - is formed by providing printed ink layer of a desired  
pattern on a base material sheet consisting of opaque olefin type  
thermoplastic elastomer and laminating transparent olefin type  
thermoplastic elastomer.  
DC A17 A93 P73

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PA (NIPQ) DAINIPPON PRINTING CO LTD

CYC 1

PI JP 10286928 A 19981027 (199902)\* 9p B32B033-00

ADT JP 10286928 A JP 1997-95605 19970414

PRAI JP 1997-95605 19970414

IC ICM B32B033-00

ICS B29C047-02; B32B025-08; B32B027-32

ICA C08J007-12

ICI B29L009:00

AB JP 10286928 A UPAB: 19990113

In a decorative sheet formed by providing printed ink layer of a desired pattern on a base material sheet consisting of opaque olefin type thermoplastic elastomer and laminating transparent olefin type thermoplastic elastomer consisting of two or more layers having easily-**adhesive** resin layer at the side of facing to the printed face as top sheet on the printed face of the base material sheet by extruding the transparent elastomer by a multilayer extruder, air contg. ozone of high temp. is blown upon the easily-**adhesive** resin face of the transparent olefin type plastic elastomer in the molten state extruded from a die of the extruder to form many polar functional groups on the resin face.

Also claimed is a method of making decorative sheet which comprises blowing air contg. ozone of high temp. upon the easily-**adhesive** resin face of the transparent olefin type thermoplastic elastomer in the molten state extruded from the extruder to form many polar functional groups on the resin face.

Preferably transparent olefin type thermoplastic elastomer contains **isotactic polypropylene** as hard segment and **atactic polypropylene** as soft segment and the easily-**adhesive** resin is formed by graft-polymerizing maleic acid to polypropylene to introduce polar functional group. Primer layer reacting with the polar functional groups formed on the easily-**adhesive** resin face of transparent olefin type thermoplastic elastomer extruded is formed on the printed ink layer of the base material sheet. Ultraviolet ray-**absorbing** agent is added to the transparent olefin type thermoplastic elastomer.

USE - The decorative sheet is useful for e.g. building material such as wooden plate or rod material or metal plate.

ADVANTAGE - As vehicle or primer layer of the printed ink reacts with the polar functional groups formed on the easily-**adhesive** resin layer of the top sheet to cause tough adhesion, the decorative sheet has high initial interlayer **adhesive** strength and exhibits little lowering of interlayer **adhesive** strength by ultraviolet rays or heat.

Dwg.0/3

FS CPI GMPI

FA AB

MC CPI: A04-G01E; A10-E11; A11-B07A; A11-B09B; A11-C04D; A12-A04A

L59 ANSWER 24 OF 43 WPIX (C) 2002 THOMSON DERWENT

AN 1997-394120 [37] WPIX

DNN N1997-328027 DNC C1997-126713

TI **Nonwoven** fabrics of thermoplastic polymer filaments used in e.g. surgical gowns, etc. - comprises blend of isotactic polyolefin phase and amorphous atactic polyolefin phase with fluorocarbon additive that preferentially migrates to filament surface, giving lightweight and good strength fabric, etc..

DC A17 A86 A96 D22 F04 P73

IN ALBERTELLI, C J; KOBYLIVKER, P M; MCMANUS, J L

PA (KIMB) KIMBERLY-CLARK CORP

CYC 1  
 PI CA 2190517 A 19970516 (199737)\* 22p D04H003-14  
 ADT CA 2190517 A CA 1996-2190517 19961115  
 PRAI US 1995-559733 19951115  
 IC ICM D04H003-14  
 ICS B32B005-26  
 AB CA 2190517 A UPAB: 19970915  
 A **nonwoven** fabric of thermoplastic polymer filaments comprises a blend of: (i) an isotactic polyolefin polymer phase; and (ii) 10-40 wt.% amorphous atactic polyolefin polymer phase; with (iii) 0.1-3.0 wt.% a fluorocarbon additive which preferentially migrates to the filament surface.  
 Also claimed are: (I) a multilayer laminate where the **nonwoven** fabric is placed between two layers of spun-bond fabric and bonded together by thermal bonding, ultrasonic bonding, hydro-entanglement, needle-punch bonding or **adhesive** bonding; and (II) thermoplastic polymer filaments comprising a blend of **isotactic PP** polymer(s) (having an isotacticity of at least 85), 10-40 wt.% amorphous **atactic PP** polymer(s) (having an isotacticity of less than 20) and 0.1-3.0 wt.% fluorocarbon that preferentially migrates to filament surface via an amorphous migration pathway.  
 USE - **Nonwoven** fabrics are used in applications from baby wipes and nappies, feminine hygiene products, outdoor fabrics, surgical fabrics, e.g. gowns, to automobile covers.  
 ADVANTAGE - Fabric is lightweight and has good strength, high vapour transmission, breathability, resistance to liquid penetration, barrier and softness.  
 Dwg.0/0  
 FS CPI GMPI  
 FA AB  
 MC CPI: A04-G01B; A07-A02D; A11-C05A; A12-S05G; A12-V03A; D09-C03; D09-C04; D09-C04D; D09-C05; F02-C01; F02-C02; F04-C01; F04-E04

L59 ANSWER 25 OF 43 RAPRA COPYRIGHT 2002 RAPRA  
 AN R:634962 RAPRA FS Rapra Abstracts; Adhesives Abstracts  
 TI HYGIENE APPLICATIONS PROFIT...  
 SO Modern Plastics International 27, No.5, May 1997, p.148  
 ISSN: 0026-8283  
 CODEN: MOPLAY  
 PY 1997  
 DT Journal  
 LA English  
 AB Finaprene 602 radial styrene-butadiene block copolymer hot melt **adhesive** is an extra strength product for use in disposable hygiene applications such as nappies. It provides increased adhesion between PE film backing and non-woven PP **absorbent** layers. Brief product details are given.  
 CC 6A1; 42C21D11  
 SC \*QB; KF  
 \*ADAHJ  
 CT **ABSORBENT**; ADHESION; **ADHESIVE**; COMPANIES; COMPANY; DATA; DISPOSABLE; FILM; FILMS; **HOT MELT ADHESIVE**; HYGIENE; IMPACT MODIFIER; LAMINATION; NAPPY; **NON-WOVEN**; PE; PERSONAL CARE PRODUCT; PETP; PLASTIC; POLYETHYLENE; POLYETHYLENE TEREPHTHALATE; POLYPROPENE; POLYPROPYLENE; POLYSTYRENE; POLYVINYLBENZENE; PP; PRODUCT ANNOUNCEMENT; PS; SBS; SHORT ITEM; SPRAYABLE; STYRENE POLYMER; STYRENE-BUTADIENE-STYRENE BLOCK COPOLYMER; TECHNICAL; THERMOPLASTIC; PET  
 SHR **ADHESIVES**, hot melt, hygienic applications, nappies  
 SHA **HOT MELT ADHESIVES**, nappies, hygienic applications



CO FINA CHEMICALS  
GT BELGIUM; EUROPEAN COMMUNITY; EUROPEAN UNION; WESTERN EUROPE  
TN FINAPRENE 602

L59 ANSWER 26 OF 43 HCAPLUS COPYRIGHT 2002 ACS DUPLICATE 2  
AN 1996:401593 HCAPLUS  
DN 125:60490  
TI Hot-melt **adhesive** compositions with hydrophilic character  
IN Riswick, Martin; Raykovitz, Gary F.  
PA National Starch and Chemical Investment Holding Corporation, USA  
SO Eur. Pat. Appl., 8 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
IC ICM D04H001-64  
CC 38-3 (Plastics Fabrication and Uses)  
Section cross-reference(s): 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 710737	A2	19960508	EP 1995-115723	19951005
	EP 710737	A3	19980107		
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
	AU 9533101	A1	19960509	AU 1995-33101	19951009
	AU 675618	B2	19970206		
	CA 2160177	AA	19960428	CA 1995-2160177	19951010
	JP 08239638	A2	19960917	JP 1995-278983	19951026
	JP 2648295	B2	19970827		
PRAI	US 1994-330159		19941027		
	US 1995-457898		19950601		
AB	Adding nonionic fluorochem. surfactant 0.1-10 parts/100 parts <b>adhesive</b> gives the title <b>adhesive</b> compn. and assists in transfer of liq. (strike through) from <b>nonwoven</b> backing to the superabsorbent layer in <b>absorbent</b> materials. An <b>adhesive</b> (used to bond tissue to polypropylene <b>nonwoven</b> substrate) contg. Stereon 840A and 2.5, 5, 10, and 20% FC 1802 fluorochem. surfactant showed contact angle after 48 h at 177.degree. 72, 62, 46, and 28.degree., resp.				
ST	hot melt <b>adhesive</b> hydrophilic additive; fluorochem surfactant hydrophilic additive <b>adhesive</b> ; SBR <b>adhesive</b> hydrophilic additive; strike through improvement hydrophilic <b>adhesive</b> ; fluorinated alkyl alkoxyate surfactant; sulfonamide fluorinated alkyl surfactant				
IT	<b>Diapers</b> (additive for hot-melt <b>adhesive</b> compns. for good hydrophilic character for use in layers of)				
IT	Surfactants (fluoro alkyl alkoxyate or sulfonamide; additive for hot-melt <b>adhesive</b> compns. for good hydrophilic character)				
IT	Rubber, butadiene-styrene, uses RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (block, triblock, additive for hot-melt <b>adhesive</b> compns. for good hydrophilic character)				
IT	<b>Adhesives</b> (hot-melt, additive for hot-melt <b>adhesive</b> compns. for good hydrophilic character)				
IT	Rubber, butadiene-styrene, uses RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)				

(hydrogenated, block, additive for hot-melt **adhesive** compns.  
for good hydrophilic character)

IT Rubber, synthetic  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or  
engineered material use); USES (Uses)  
(isoprene-styrene, additive for hot-melt **adhesive** compns. for  
good hydrophilic character)

IT 178359-41-6, Fluorad FC 1802  
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(additive for hot-melt **adhesive** compns. for good hydrophilic  
character)

IT 9003-07-0, Polypropylene 24937-78-8, EVA 25085-53-4,  
Isotactic polypropylene  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or  
engineered material use); USES (Uses)  
(additive for hot-melt **adhesive** compns. for good hydrophilic  
character)

IT 106107-54-4  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or  
engineered material use); USES (Uses)  
(rubber, block, triblock, additive for hot-melt **adhesive**  
compns. for good hydrophilic character)

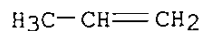
IT 106107-54-4  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or  
engineered material use); USES (Uses)  
(rubber, hydrogenated, block, additive for hot-melt **adhesive**  
compns. for good hydrophilic character)

IT 9003-07-0, Polypropylene 25085-53-4, Isotactic  
polypropylene  
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or  
engineered material use); USES (Uses)  
(additive for hot-melt **adhesive** compns. for good hydrophilic  
character)

RN 9003-07-0 HCAPLUS  
CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

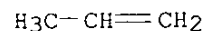
CRN 115-07-1  
CMF C3 H6



RN 25085-53-4 HCAPLUS  
CN 1-Propene, homopolymer, isotactic (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1  
CMF C3 H6



L59 ANSWER 27 OF 43 HCAPLUS COPYRIGHT 2002 ACS  
AN 1997:244097 HCAPLUS

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DN 126:226501  
 TI Thermoformable barrier **nonwoven laminates** and their  
 use  
 IN Datta, Paul Joseph; Gryskiewicz, Stanley Michael; Pike, Richard Daniel  
 PA Kimberly-Clark Corporation, USA  
 SO S. African, 34 pp.  
 CODEN: SFXXAB

DT Patent

LA English

IC ICM A41B

ICS B32B; A61F

CC 40-10 (Textiles and Fibers)

Section cross-reference(s): 38, 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	ZA 9507027	A	19960326	ZA 1995-7027	19950822
	US 6159881	A	20001212	US 1997-808326	19970228
PRAI	US 1994-303786	A	19940909		
	US 1995-445149	A1	19950519		

AB A three-dimensional thermoformed article thermoformed from a barrier **lamine** comprising a barrier layer and a lofty crimped-fiber **nonwoven** web layer, said three-dimensional thermoformed article having a foam-like resiliency, cloth-like texture and liq. barrier property, wherein: said barrier layer is selected from films, microfiber **nonwoven** webs and **laminates** thereof, and said crimped-fiber web layer has substantially uniformly distributed interfiber bonds and comprises a structural fiber component and an heat-activatable **adhesive** component, wherein said thermoformed article has a d.-over-area ratio between 1 and about 2.5. The **nonwoven laminates** are useful in products such as **disposable diaper**, sanitary napkin, etc. A spunbond bicomponent **nonwoven** web was made from a blend of (A) LLDPE contg. 2% 50:50 TiO2-polypropylene conc. and (B) polypropylene contg. 2% the above conc. and **laminated** with a polypropylene film to give a title **lamine**.

ST moisture barrier **nonwoven web lamine**; sanitary napkin **nonwoven web lamine**; **disposable diaper nonwoven web lamine**; bicomponent fiber **nonwoven web lamine**; heat sensitive **adhesive nonwoven lamine**; thermal formable **nonwoven lamine**

IT Polypropene fibers, uses  
 RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
 (bicomponent fibers with LLDPE; manuf. of thermoformable barrier **nonwoven lamine** for use in)

IT Polyolefin fibers  
 RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
 (ethylene, bicomponent fibers with polypropylene; manuf. of thermoformable barrier **nonwoven lamine** for use in)

IT **Diapers**  
 (manuf. of thermoformable barrier **nonwoven lamine** for use in)

IT **Nonwoven fabrics**  
 (manuf. of thermoformable barrier **nonwoven laminates** for use in **diaper** and napkin or other products)

IT **Laminated** plastics, uses

RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
(manuf. of thermoformable barrier **nonwoven laminates** for use in **diaper** and napkin or other products)

IT **Medical goods**  
(sanitary napkins; manuf. of thermoformable barrier **nonwoven laminate** for use in)

IT Fluoropolymers, uses  
Polyamides, uses  
Polycarbonates, uses  
Polyesters, uses  
Polyolefins  
Thermoplastic rubber

RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
(thermally formable; manuf. of thermoformable barrier **nonwoven laminates** for use in **diaper** and napkin or other products)

IT **25085-53-4, Escorene PD3445**  
RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
(bicomponent fibers with LLDPE; in manuf. of thermoformable barrier **nonwoven laminate** for use in **absorbing** products)

IT 26221-73-8, Aspun 6811A  
RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
(bicomponent fibers with polypropylene; in manuf. of thermoformable barrier **nonwoven laminate** for use in **absorbing** products)

IT 13463-67-7, Titania, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(fillers; in manuf. of thermoformable barrier **nonwoven laminate** for use in **absorbing** products)

IT **9003-07-0, Polypropylene**  
RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
(film, XBPP-15.2; in manuf. of thermoformable barrier **nonwoven laminate** for use in **absorbing** products)

IT 9002-88-4, Polyethylene  
RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
(films; manuf. of thermoformable barrier **nonwoven laminate** for use in)

IT **25085-53-4, Escorene PD3445**  
RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
(bicomponent fibers with LLDPE; in manuf. of thermoformable barrier **nonwoven laminate** for use in **absorbing** products)

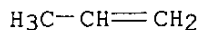
RN 25085-53-4 HCAPLUS

CN 1-Propene, homopolymer, isotactic (9CI) (CA INDEX NAME)

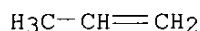
CM 1

CRN 115-07-1

CMF C3 H6



IT 9003-07-0, Polypropylene  
 RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
 (film, XBPP-15.2; in manuf. of thermoformable barrier **nonwoven laminate** for use in **absorbing** products)  
 RN 9003-07-0 HCAPLUS  
 CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 115-07-1  
 CMF C3 H6



L59 ANSWER 28 OF 43 HCAPLUS COPYRIGHT 2002 ACS  
 AN 1996:452785 HCAPLUS  
 DN 125:197904  
 TI Waterborne, water-redispersible, **laminating adhesives** for **nonwoven** applications  
 IN Koubek, Timothy C.; Puletti, Paul P.; Wieczorek, Joseph, Jr.  
 PA National Starch and Chemical Investment Holding Corp., USA  
 SO U.S., 7 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 IC ICM C09J011-06  
 ICS C09J103-02  
 NCL 524047000  
 CC 38-3 (Plastics Fabrication and Uses)  
 Section cross-reference(s): 40  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5532300	A	19960702	US 1994-289601	19940812

AB A specific class of waterborne, water-redispersible **laminating adhesives** is disclosed which is desirable for bonding **nonwoven** substrates to themselves or to other substrates. The **adhesives** provide improved bond strength and improved water redispersibility when compared to **laminating adhesives** currently used for the same purpose. Furthermore, the novel **adhesives** are much less sensitive to the presence of significant levels of plasticizer than are **laminating adhesives** currently used, which exhibit reduced water redispersibility when such plasticizers are present in significant amts. The novel **laminating adhesives** contain an aq. styrene/acrylic polymer dispersion prepd. by radical-initiated emulsion polymn. of unsatd. monomers in the presence of starch degrdn. products having a wt. av. mol. wt. range of from about 2500 to 25000 and which are obtainable by hydrolysis in the aq. phase. The **adhesives** may contain only the starch-modified, styrene/acrylic polymer dispersion, or may further include other components, such as plasticizers and/or rheol. modifiers, when required. The novel **adhesives** are particularly useful in

- disposable** articles wherein a **nonwoven** substrate is bonded to a second substrate via a waterborne, **laminating adhesive**. The **disposable** articles may include an **absorbent** core portion **disposed** between and proximate the **nonwoven** and second substrate.
- ST waterborne water redispersible **laminating adhesive**; rheol modifier styrene acrylic waterborne **adhesive**; plasticizer styrene acrylic waterborne **adhesive**; starch modified styrene acrylic waterborne **adhesive**; fabric **nonwoven laminating adhesive**; **nonwoven disposable** article manuf **adhesive**
- IT Esters, uses  
Polyesters, uses  
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
(plasticizers; waterborne, water-redispersible, **laminating adhesives** for **nonwoven** fabrics in manuf. of **disposable** articles)
- IT Plasticizers  
Thickening agents  
(waterborne, water-redispersible, **laminating adhesives** for **nonwoven** fabrics in manuf. of **disposable** articles)
- IT Polypropylene fibers  
RL: MSC (Miscellaneous)  
(**nonwoven**, waterborne, water-redispersible, **laminating adhesives** for **nonwoven** fabrics in manuf. of **disposable** articles)
- IT Acrylic polymers, uses  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(styrene-contg., waterborne, water-redispersible, **laminating adhesives** for **nonwoven** fabrics in manuf. of **disposable** articles)
- IT **Adhesives**  
(water-thinned, waterborne, water-redispersible, **laminating adhesives** for **nonwoven** fabrics in manuf. of **disposable** articles)
- IT 9003-07-0, Polypropylene  
RL: MSC (Miscellaneous)  
(film substrate; waterborne, water-redispersible, **laminating adhesives** for **nonwoven** fabrics in manuf. of **disposable** articles)
- IT 25085-53-4, Isotactic polypropylene  
RL: MSC (Miscellaneous)  
(**nonwoven** fabrics; waterborne, water-redispersible, **laminating adhesives** for **nonwoven** fabrics in manuf. of **disposable** articles)
- IT 77-90-7, Acetyl tributyl citrate 84-66-2, Diethyl phthalate 84-72-0, Ethyl phthalyl ethyl glycolate 84-74-2, Dibutyl phthalate 85-68-7, Benzyl butyl phthalate 85-70-1, Butyl phthalyl butyl glycolate 85-71-2, Methyl phthalyl ethyl glycolate 107-41-5, Hexylene glycol 109-43-3, Dibutyl sebacate 120-55-8, Diethylene glycol dibenzoate 1321-54-6, Ethyl-p-toluenesulfonamide 25265-71-8, Dipropylene glycol 27138-31-4, Dipropylene glycol dibenzoate 68389-55-9, Phthalic acid-triethylene glycol copolymer benzoate 71030-53-0, Benzoflex 50  
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
(plasticizer; waterborne, water-redispersible, **laminating adhesives** for **nonwoven** fabrics in manuf. of

disposable articles)  
IT 136840-53-4, Alcogum 296W  
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
(thickener; waterborne, water-redispersible, **laminating adhesives** for **nonwoven** fabrics in manuf. of **disposable** articles)  
IT 180615-92-3, Acronal DS 3446X  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(waterborne, water-redispersible, **laminating adhesives** for **nonwoven** fabrics in manuf. of **disposable** articles)  
IT 9005-25-8D, Starch, derivs. 25586-20-3, Acrylic acid-butyl acrylate-styrene copolymer  
RL: TEM (Technical or engineered material use); USES (Uses)  
(waterborne, water-redispersible, **laminating adhesives** for **nonwoven** fabrics in manuf. of **disposable** articles)  
IT 9003-07-0, Polypropylene  
RL: MSC (Miscellaneous)  
(film substrate; waterborne, water-redispersible, **laminating adhesives** for **nonwoven** fabrics in manuf. of **disposable** articles)  
RN 9003-07-0 HCAPLUS  
CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)  
  
CM 1  
  
CRN 115-07-1  
CMF C3 H6

H<sub>3</sub>C-CH=CH<sub>2</sub>

IT 25085-53-4, Isotactic polypropylene  
RL: MSC (Miscellaneous)  
(**nonwoven** fabrics; waterborne, water-redispersible, **laminating adhesives** for **nonwoven** fabrics in manuf. of **disposable** articles)  
RN 25085-53-4 HCAPLUS  
CN 1-Propene, homopolymer, isotactic (9CI) (CA INDEX NAME)  
  
CM 1  
  
CRN 115-07-1  
CMF C3 H6

H<sub>3</sub>C-CH=CH<sub>2</sub>

L59 ANSWER 29 OF 43 HCAPLUS COPYRIGHT 2002 ACS  
AN 1996:643862 HCAPLUS  
DN 125:278002  
TI Laminate moldings with pre-printed images and their manufacture  
IN Yamashita, Rikya; Yamazaki, Takuya  
PA Dainippon Printing Co Ltd, Japan

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

SO Jpn. Kokai Tokkyo Koho, 32 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM B41M001-40  
 ICS B32B015-08; B41F019-08  
 CC 38-3 (Plastics Fabrication and Uses)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08207420	A2	19960813	JP 1995-16112	19950202
AB	A film or sheet base material, which may be single layer or multilayer and may comprises a thermoplastic middle layer, an oxygen barrier layer, an oxygen- <b>absorbing</b> layer, a moisture- <b>absorbing</b> layer, a metal foil layer, a paper layer, a <b>nonwoven</b> fabric layer, a non- <b>absorbing</b> resin layer, an antibacterial layer, a biodegradable polymer layer, a foamed plastic layer, and a layer of recycled material, is drawn by using plug or fluid pressure method while the edges of the sheet are fixed to give a molded product with one end open and having a printed image on exterior and/or interior surface which is pre-printed, while taking the drawing into consideration, on the thermoplastic layer of the base sheet before the molding process and drawn together with the base sheet. A manufg. process includes: (1) prepg. a base sheet, (2) testing the drawing condition of the base sheet, (3) pre-printing on the base sheet, (4) positioning the sheet, and (5) drawing. Various thermoplastic resins, styrene resins, polyesters, polyamides, chlorine-contg. polymers, acrylic polymers, engineering plastics, thermoplastic elastomers, polycarbonates, polyurethanes, cellophanes, and foamed plastics were used in the examples.				
ST	thermoplastic laminate molding printed; drawing molding thermoplastic laminate				
IT	Ionomers RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses) (crosslinked olefin copolymers; laminate moldings with pre-printed images and their manuf.)				
IT	Molding of plastics and rubbers (laminate moldings with pre-printed images and their manuf.)				
IT	Acrylic polymers, uses Cellophane Liquid crystals, polymeric Paper Polyamides, uses Polycarbonates, uses Polyesters, uses Polyimides, uses Polythiophenylenes Rubber, ethylene-propene Rubber, nitrile Rubber, urethane, uses Urethane polymers RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses) (laminate moldings with pre-printed images and their manuf.)				
IT	Alkadienes RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses) (polymers; laminate moldings with pre-printed images and their manuf.)				
IT	Rubber, butadiene-styrene RL: PEP (Physical, engineering or chemical process); TEM (Technical or				



engineered material use); PROC (Process); USES (Uses)  
 (block, laminate moldings with pre-printed images and their manuf.)

IT Rubber, synthetic  
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (butanediol-polybutylene glycol-terephthalic acid, block, laminate moldings with pre-printed images and their manuf.)

IT Rubber, synthetic  
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (ethylene-propylene-styrene block, laminate moldings with pre-printed images and their manuf.)

IT Rubber, butadiene-styrene, uses  
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (hydrogenated, block, laminate moldings with pre-printed images and their manuf.)

IT Rubber, synthetic  
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (isoprene-styrene, block, laminate moldings with pre-printed images and their manuf.)

IT Textiles  
 (nonwoven, laminate moldings with pre-printed images and their manuf.)

IT Plastics, laminated  
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (thermo-, laminate moldings with pre-printed images and their manuf.)

IT 9003-07-0, Polypropylene  
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (cellular; laminate moldings with pre-printed images and their manuf.)

IT 74-85-1D, Ethene, polymers with propylene and dienes 115-07-1D,  
 1-Propene, polymers with ethylene and dienes 7429-90-5, Aluminum, uses  
 9002-85-1, Polyvinylidene chloride 9002-86-2, Polyvinyl chloride  
 9002-88-4, Polyethylene 9002-89-5, Polyvinyl alcohol 9003-28-5,  
 1-Butene homopolymer 9003-53-6, Polystyrene 9003-53-6D, Polystyrene,  
 hydrogenated 9003-54-7, Acrylonitrile-styrene copolymer  
 9003-55-8, Butadiene-styrene copolymer 9003-56-9,  
 Acrylonitrile-butadiene-styrene copolymer 9008-66-6, Nylon 610  
 9010-79-1, Ethylene-propylene copolymer 9011-14-7, Polymethyl  
 methacrylate 9011-52-3, Hexamethylenediamine-sebacic acid copolymer  
 9016-80-2, Poly(methylpentene) 9020-32-0, Polyethylene naphthalate  
 9020-73-9 24937-16-4, Nylon 12 24937-78-8, Ethylene-vinyl acetate  
 copolymer 24968-12-5, Polybutylene terephthalate 24993-04-2, Nylon  
 6/66 25014-41-9, Polyacrylonitrile 25035-04-5, Nylon 11 25038-32-8,  
 Isoprene-styrene copolymer 25038-54-4, Nylon 6, uses 25038-59-9,  
 Polyethylene terphthalate, uses 25038-74-8, Azacyclotridecan-2-one  
 homopolymer 25067-34-9, Ethylene-vinyl alcohol copolymer  
 25085-53-4 25087-34-7, 1-Butene-ethylene copolymer 25101-13-7,  
 Ethylene-methyl methacrylate copolymer 25587-80-8 25718-70-1, Adipic  
 acid-m-xylylenediamine copolymer 25805-74-7 25852-37-3, Butyl  
 acrylate-methyl methacrylate copolymer 25895-47-0, 1-Butene-ethylene-  
 propylene copolymer 26062-94-2, 1,4-Butanediol-terephthalic acid  
 copolymer 26796-67-8 26916-48-3, Nylon 13 29160-13-2,  
 1-Butene-propylene copolymer 32131-17-2, Nylon 66, uses  
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (laminate moldings with pre-printed images and their manuf.)

IT 1309-37-1, Iron oxide, uses  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (oxygen-**absorbing** layer contg.; laminate moldings with  
 pre-printed images and their manuf.)

IT 106107-54-4  
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or  
 engineered material use); PROC (Process); USES (Uses)  
 (rubber, block, laminate moldings with pre-printed images and their  
 manuf.)

IT 106107-54-4  
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or  
 engineered material use); PROC (Process); USES (Uses)  
 (rubber, hydrogenated, block, laminate moldings with pre-printed images  
 and their manuf.)

IT 9003-18-3 9010-79-1  
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or  
 engineered material use); PROC (Process); USES (Uses)  
 (rubber, laminate moldings with pre-printed images and their manuf.)

IT **105729-79-1**, Isoprene-styrene block copolymer 106107-54-4D,  
 Butadiene-styrene block copolymer, hydrogenated 106159-00-6,  
 1,4-Butanediol-polytetramethylene glycol-terephthalic acid block copolymer  
 108388-87-0, Ethylene-propylene-styrene block copolymer  
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or  
 engineered material use); PROC (Process); USES (Uses)  
 (rubber; laminate moldings with pre-printed images and their manuf.)

IT 9086-70-8, Acrylic acid-starch graft copolymer  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (water-**absorbing** layer contg.; laminate moldings with  
 pre-printed images and their manuf.)

IT **9003-07-0**, Polypropylene  
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or  
 engineered material use); PROC (Process); USES (Uses)  
 (cellular; laminate moldings with pre-printed images and their manuf.)

RN 9003-07-0 HCAPLUS

CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6

H<sub>3</sub>C-CH=CH<sub>2</sub>

IT **9003-55-8**, Butadiene-styrene copolymer **25085-53-4**  
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or  
 engineered material use); PROC (Process); USES (Uses)  
 (laminate moldings with pre-printed images and their manuf.)

RN 9003-55-8 HCAPLUS

CN Benzene, ethenyl-, polymer with 1,3-butadiene (9CI) (CA INDEX NAME)

CM 1

CRN 106-99-0

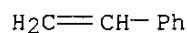
CMF C4 H6

H<sub>2</sub>C=CH-CH=CH<sub>2</sub>

CM 2

CRN 100-42-5

CMF C8 H8



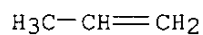
RN 25085-53-4 HCAPLUS

CN 1-Propene, homopolymer, isotactic (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6



IT 105729-79-1, Isoprene-styrene block copolymer

RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(rubber; laminate moldings with pre-printed images and their manuf.)

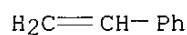
RN 105729-79-1 HCAPLUS

CN Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene, block (9CI) (CA INDEX NAME)

CM 1

CRN 100-42-5

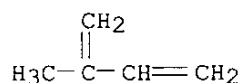
CMF C8 H8



CM 2

CRN 78-79-5

CMF C5 H8



L59 ANSWER 30 OF 43 HCAPLUS COPYRIGHT 2002 ACS

AN 1997:226573 HCAPLUS

DN 126:213320

TI Patterned embossed **nonwoven** fabrics and liquid-impermeable **composite** materials therefrom and their manufacture for personal care **absorbent** articles

IN Yeo, Richard Swee-Chye; Uitenbroek, Duane Girard; Powers, Jennifer Ray

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

PA Kimberly-Clark Corporation, USA  
 SO Can. Pat. Appl., 34 pp.  
 CODEN: CPXXEB  
 DT Patent  
 LA English  
 IC ICM D04H003-12  
 CC 40-10 (Textiles and Fibers)  
 Section cross-reference(s): 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CA 2169501	AA	19960816	CA 1996-2169501	19960214
PRAI	US 1995-388770		19950215		

AB The **composite** materials are prepd. by melt spinning polymers to form continuous filaments, drawing the filaments, quenching the filaments, collecting the filaments on a moving surface to form **nonwoven** webs, heat-bonding the webs or bonding the webs using **adhesives**, embossing the webs, and **laminating** the webs with liq.-impermeable films or simultaneously **laminating** the webs with the films and embossing the **laminates**. The **composite** materials are useful as outer covers for **disposable diapers**. A carded web was prepd. from spun fibers from sheath/core fibers from LDPE and polypropylene (I), bonded at air temp. 263.degree.F, simultaneously embossed at pattern roll temp. 285.degree.F and **laminated** with I film to give a **lamine** having bond area 13%.

ST **nonwoven** plastic film **lamine** liq impermeable; polypropylene polyethylene bicomponent fiber **nonwoven lamine**; polyethylene terephthalate polyethylene bicomponent fiber **nonwoven**; personal care **absorbent** article **nonwoven lamine**; **disposable diaper nonwoven** plastic film **lamine**; embossing synthetic **nonwoven** plastic film **lamine**

IT Polyester fibers, processes  
 Polypropene fibers, processes  
 RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses) (bicomponent with polyethylene fibers; manuf. of patterned embossed **nonwoven** fabrics and liq.-impermeable **composite** materials therefrom for personal care **absorbent** articles)

IT Polyolefin fibers  
 RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses) (ethylene, bicomponent with PET or polypropylene fiber; manuf. of patterned embossed **nonwoven** fabrics and liq.-impermeable **composite** materials therefrom for personal care **absorbent** articles)

IT Embossing  
 (for patterned embossed **nonwoven** fabrics and liq.-impermeable **composite** materials therefrom for personal care **absorbent** articles)

IT **Disposable diapers**  
 (manuf. of patterned embossed **nonwoven** fabrics and liq.-impermeable **composite** materials therefrom for outer covers for)

IT Synthetic polymeric fibers, processes  
 RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses) (manuf. of patterned embossed **nonwoven** fabrics and liq.-impermeable **composite** materials therefrom for personal

care **absorbent** articles)

IT **Medical** goods  
(personal care **absorbent** articles; manuf. of patterned embossed **nonwoven** fabrics and liq.-impermeable **composite** materials therefrom for outer covers for)

IT 25085-53-4, Isotactic polypropylene  
RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
(PD-3445, fiber, bicomponent with polyethylene; manuf. of patterned embossed **nonwoven** fabrics and liq.-impermeable **composite** materials therefrom for personal care **absorbent** articles)

IT 9003-07-0, Polypropylene  
RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
(XBPP 4.0, films, **laminates** with synthetic **nonwoven** fabrics; manuf. of patterned embossed **nonwoven** fabrics and liq.-impermeable **composite** materials therefrom for personal care **absorbent** articles)

IT 9002-88-4, Polyethylene  
RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
(fiber, bicomponent with PET or polypropylene; manuf. of patterned embossed **nonwoven** fabrics and liq.-impermeable **composite** materials therefrom for personal care **absorbent** articles)

IT 25038-59-9, Poly(ethylene terephthalate), processes  
RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
(fiber, bicomponent with polyethylene; manuf. of patterned embossed **nonwoven** fabrics and liq.-impermeable **composite** materials therefrom for personal care **absorbent** articles)

IT 25085-53-4, Isotactic polypropylene  
RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
(PD-3445, fiber, bicomponent with polyethylene; manuf. of patterned embossed **nonwoven** fabrics and liq.-impermeable **composite** materials therefrom for personal care **absorbent** articles)

RN 25085-53-4 HCAPLUS

CN 1-Propene, homopolymer, isotactic (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6

H<sub>3</sub>C-CH=CH<sub>2</sub>

IT 9003-07-0, Polypropylene  
RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
(XBPP 4.0, films, **laminates** with synthetic **nonwoven** fabrics; manuf. of patterned embossed **nonwoven** fabrics and liq.-impermeable **composite** materials therefrom for personal care **absorbent** articles)

RN 9003-07-0 HCAPLUS

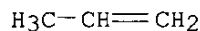
CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

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CM 1

CRN 115-07-1

CMF C3 H6



L59 ANSWER 31 OF 43 RAPRA COPYRIGHT 2002 RAPRA  
 AN R:630869 RAPRA FS Rapra Abstracts  
 TI NONWOVEN ELASTOMERIC MATERIAL.  
 IN Shah K N; Cundy J P  
 PA Kimberly-Clark Corp.  
 CA Neenah, Wis., USA  
 PI US 5536563 A 19960716  
 AI US 1994-348549 19941201  
 DT Patent  
 LA English  
 IC ICM C08L053-00  
 ICS D03D003-00  
 AB This consists of a thermoplastic, elastomeric composition composed of a block copolymer which comprises an elastomeric midblock portion and a thermoplastic endblock portion, a first tackifying resin substantially compatible with and substantially associated with the midblock portion, and a second tackifying resin substantially compatible with and substantially associated with the endblock portion. The non-woven elastomeric material exhibits both desired elastic and **adhesive** properties and is useful for imparting elastic properties to flexible, non-elastic substrates. Also disclosed is a disposable **absorbent** product which includes the non-woven elastomeric material and is intended for the absorption of body fluids.  
 CC 62.11; 9351  
 SC \*OM; UE  
 CT ABSORPTION; ADHESION; BLOCK COPOLYMER; BODY FLUID; COMPANIES; COMPANY; COMPATIBILITY; COMPOSITION; DIAGRAM; DISPOSABLE; ELASTIC; ELASTOMER; FLEXIBILITY; FLEXIBLE; MECHANICAL PROPERTIES; MOLECULAR ASSOCIATION; **NON-WOVEN**; POLYMERIC TACKIFIER; RUBBER; SUBSTRATE; TACKIFIER; TECHNICAL; THERMOPLASTIC ELASTOMER; THERMOPLASTIC RUBBER  
 SHR NON WOVEN MATERIALS, absorption; ABSORPTION, non woven materials  
 GT USA

L59 ANSWER 32 OF 43 RAPRA COPYRIGHT 2002 RAPRA  
 AN R:632216 RAPRA FS Rapra Abstracts  
 TI COMMODITY PLASTIC REACHES RECORD HIGHS IN 1995 PRODUCTION.  
 AU Capshew C (Phillips Sumika Polypropylene Co.Ltd.)  
 SO Modern Plastics Encyclopedia 73, No.12, Nov.1996, p.B6-9  
 PY 1996  
 DT Journal  
 LA English  
 AB PP continues to be the fastest growing commodity thermoplastic in the world. There are three primary structures for **PP**: **isotactic**, syndiotactic and **atactic**. Properties and applications of these three forms are discussed.  
 CC 42C12  
 SC \*KE  
 CT ADDITIVE; ANTIOXIDANT; APPLICATION; ATACTIC; AUTOMOTIVE APPLICATION; BIAXIALLY ORIENTED; BLOW MOLDING; BLOW MOULDING; CAPACITY; CAST FILM;

CATALYST; CHEMICAL PROPERTIES; CHEMICAL RESISTANCE; COMPANIES; COMPANY;  
COMPOUNDING; CONSUMPTION; DATA; DOMESTIC EQUIPMENT; ECONOMIC INFORMATION;  
FIBER; FIBRE; FILM; FILMS; GRAPH; HOUSEWARE; HOUSEWARES; IMPACT  
PROPERTIES; INJECTION MOLDING; INJECTION MOULDING; ISOTACTIC;  
LIGHTWEIGHT; M.P.; MARKET SHARE; MATERIALS SELECTION; MECHANICAL  
PROPERTIES; MEDICAL APPLICATION; MELT FLOW RATE; MELTING POINT;  
**NON-WOVEN**; ORIENTATION; PACKAGING; PHYSICAL PROPERTIES; PLASTIC;  
POLYMERISATION; POLYMERIZATION; POLYPROPENE; POLYPROPYLENE; PP;  
PRODUCTION CAPACITY; PROPERTIES; RANDOM COPOLYMER; SHEETING; STATISTICS;  
SYNDIOTACTIC; THERMOFORMING; THERMOPLASTIC; TOYS

SHR PROPYLENE POLYMERS  
GT NORTH AMERICA

L59 ANSWER 33 OF 43 WPIX (C) 2002 THOMSON DERWENT

AN 1996-275928 [28] WPIX

DNN N1996-232133 DNC C1996-087524

TI Polypropylene surgical mono-thread prepn. for increased strength - by  
extrusion-forming of mono-thread from **atactic**  
**polypropylene**, two-stage drawing and thermo-fixing, for fibre  
prodn. and surgical thread.

DC A17 A32 A96 D22 F01 P34

IN PAPTSOVA, I I; ZHUKOVSKAYA, I I; ZHUKOVSKII, V A

PA (LEZH) UNIV ST PETERSBURG TECHN DES

CYC 1

PI RU 2047673 C1 19951110 (199628)\* 5p D01F006-06

ADT RU 2047673 C1 RU 1993-38402 19930727

PRAI RU 1993-38402 19930727

IC ICM D01F006-06

ICS A61L017-00

AB RU 2047673 C UPAB: 19960719

The method is based on:

(a) extrusion-forming of mono-thread from **isotactic**

**polypropylene**,

(b) drawing, and

(c) thermo-fixing.

To improve results:

(i) the method uses **isotactic polypropylene** with  
average number Mw 39,500-59,800 and average wt. Mw 273,000-350,000;

(ii) drawing is conducted in two stages; and

(ii) thermo-fixing is conducted by treatment of thread with live  
steam for 10-40 minutes at 110-140 deg. C.

USE - In synthetic fibre prodn. industry and in **medical**  
practice as the method of prodn. of sterile surgical mono-thread used for  
making non-**absorbable** stitches.

ADVANTAGE - Produced sterile thread has increased strength.

Dwg.0/0

FS CPI GMPI

FA AB

MC CPI: A04-G03C; A04-G03E1; A11-B02B; A11-B02C; A11-B15; A12-S05E; A12-V03;  
D09-D; F01-C06; F01-C08; F01-D05; F01-E05; F01-H05; F04-E04

L59 ANSWER 34 OF 43 RAPRA COPYRIGHT 2002 RAPRA

AN R:595816 RAPRA FS Rapra Abstracts

TI MULTI-COLOUR PRINTED NON-WOVEN LAMINATES.

IN Yeo R S

PA Kimberly-Clark Corp.

CA 401 North Lake Street, Neenah, WI 54956, USA

Postcode: WI 54956

PI WO 9515410 A1 19950608

DS AM; AT; AU; BB; BG; BR; BY; CA; CH; CN; CZ; DE; DK; ES; FI; GB; GE; HU;

JP; KE; KG; KP; KR; KZ; LK; LT; LU; LV; MD; MG; MN; MW; NL; NO; NZ; PL;  
PT; RO; RU; SD; SE; SI; SK; TJ; TT; UA; UZ; VN; BE; FR; GR; IE; IT; MC;  
SZ; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD; TG

AI WO 1994-US12688 19941104  
PRAI US 1993-161101 19931201  
DT Patent  
LA English  
IC ICM D04H013-00  
ICS B32B007-14

AB These include a fibrous non-woven web facing layer and a substrate layer bonded to the facing layer by coloured **adhesive** inks applied in a discrete bond pattern between the facing and substrate layers. The inks must provide a cohesion strength between the layers of at least about 38,000 N/sq.m. and the inks must be visible through the surface or the facing layer. The laminates have good delamination characteristics and are aesthetically pleasing and the printed patterns are resistant to abrasion due to the position and nature of the inks. End-uses include outercovers for personal care **absorbent** articles, such as nappies, training pants, incontinence garments, sanitary napkins, bandages and the like as well as materials for use as all or a portion of an article of clothing or a surgical drape.

CC 626  
SC \*OK  
CT ABRASION RESISTANCE; **ABSORBENT**; **ADHESIVE**; APPEARANCE; BANDAGE; CLOTHING; COHESION; COMPANY; DELAMINATION; FACING; INK; LAMINATE; MECHANICAL PROPERTIES; MEDICAL APPLICATION; MULTI-COLOUR; NAPPY; **NON-WOVEN**; PATTERNED; PERSONAL CARE PRODUCT; PLASTIC; PRINTING; SANITARY APPLICATION; SUBSTRATE; SURGICAL DRAPE; TECHNICAL; WEB

SHR LAMINATES, non woven, multicolour  
GT USA

L59 ANSWER 35 OF 43 RAPRA COPYRIGHT 2002 RAPRA  
AN R:563546 RAPRA FS Rapra Abstracts; Adhesives Abstracts  
TI METHOD FOR LAYING A SPORTS FLOOR AND SPORTS FLOOR OBTAINED WITH SUCH A METHOD.  
IN Pilon J J  
PA Descol Kunststof Chemie BV  
CA Duurstedeweg 33007, NL-7418 CK Deventer, Netherlands  
Postcode: 7418  
PI WO 9507398 A1 19950316  
DS AM; AT; AU; BB; BG; BR; BY; CA; CH; CN; CZ; DE; DK; EE; ES; FI; GB; GE; HU; JP; KE; KG; KP; KR; KZ; LK; LR; LT; LU; LV; MD; MG; MN; MW; NL; NO; NZ; PL; PT; RO; RU; SD; SE; SI; SK; TJ; TT; UA; US; UZ; VN; BE; FR; GR; IE; IT; MC; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD; TG

AI WO 1994-NL213 19940905  
PRAI NL 1993-1538 19930906  
DT Patent  
LA English  
IC ICM E04F015-18  
ICS A63C007-02; A63C009-02; B32B005-28

AB A resilient first layer consisting of a bonded rubber granulate, foam material or a mixture thereof, is placed on flat ground, e.g. sand-cement, concrete, asphalt, anhydrite, wood, fibreboard or the like with interposing of an **adhesive** layer, e.g. glue or a double-sided **adhesive** foil. A mat, which is adapted to **absorb** an optionally viscous, curable, plastic-containing liquid and which comprises, e.g. a non-woven, woven or porous material, a material containing cohesive fibres or a honeycomb structure, is placed on the first layer with interposing of an **adhesive** layer and the curable liquid, e.g. a two-component mixture or aqueous dispersion of



plastics, is applied to the mat and allowed to cure to form a force-distributing layer having a hardness of 50 to 90 Shore D. At least one covering layer having a hardness of 70 to 90 Shore A is finally applied.

CC 626; 6R41

SC \*QP; OK

\*ADALF

CT **ADHESIVE; ADHESIVE FILM; AQUEOUS DISPERSION; CEMENT;**  
COMPANY; CONCRETE; CURING; DIAGRAM; DOUBLE-SIDED; ELASTOMER; FIBRE;  
FIBREBOARD; FOAM; GRANULE; HONEYCOMB STRUCTURE; IMPREGNATION; LAMINATE;  
MANUFACTURE; MAT; MECHANICAL PROPERTIES; **NON-WOVEN**; PLASTIC;  
POROUS; RESILIENCE; RUBBER; SAND; SHORE HARDNESS; SPORTS SURFACE;  
TECHNICAL; THERMOSET; TWO-COMPONENT; VISCOUS; WOOD; WOVEN; FIBER;  
FIBERBOARD

NPT ANHYDRITE; ASPHALT

SHR SPORTS SURFACES

SHA SPORTS SURFACES

GT EUROPEAN COMMUNITY; EUROPEAN UNION; NETHERLANDS; WESTERN EUROPE

L59 ANSWER 36 OF 43 HCAPLUS COPYRIGHT 2002 ACS

AN 1995:272894 HCAPLUS

DN 122:33145

TI Laminating method and laminated products with improved peel strength and solvent resistance

IN Nohr, Ronald Sinclair; Macdonald, John Gavin

PA Kimberly-Clark Corp., USA

SO Eur. Pat. Appl., 20 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM B32B031-00

ICS B29C035-10; C09J163-00; B29D009-00

CC 38-2 (Plastics Fabrication and Uses)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 604738	A1	19940706	EP 1993-118006	19931105
	EP 604738	B1	19991020		
	R: BE, DE, ES, FR, GB, IT, NL, SE				
	US 5455074	A	19951003	US 1992-997799	19921229
	CA 2094305	AA	19940630	CA 1993-2094305	19930419
	ES 2140431	T3	20000301	ES 1993-118006	19931105
	ZA 9308314	A	19940607	ZA 1993-8314	19931108
	AU 9350520	A1	19940714	AU 1993-50520	19931108
	AU 664653	B2	19951123		
	CN 1090813	A	19940817	CN 1993-121507	19931228
	JP 06286093	A2	19941011	JP 1993-334124	19931228
	US 5578369	A	19961126	US 1995-450044	19950525
PRAI	US 1992-997799		19921229		

AB The method involves (A) applying an **adhesive** compn. to a surface of a first sheet; (B) exposing the **adhesive** compn. to incoherent, pulsed UV radiation from a dielec. barrier discharge excimer lamp; (C) bringing a surface of a second sheet in contact with the **adhesive**-coated surface of the first article; and (D) allowing the **adhesive** compn. to cure. A similar process involving 3 sheets is also claimed. The **adhesive** compn. includes a cycloaliph. diepoxide 60-94, a cationic photoinitiator 1-10, and a vinyl chloride-vinyl acetate-vinyl alc. terpolymer 5-30%. The sheets desirably are films and/or **nonwoven** webs composed of cellulosic and/or polyolefin fibers. The method is particularly well suited for the prepn.

of such laminates as industrial wipers, workwear, and **medical** fabrics.

ST lamination peel strength solvent resistance; **adhesive** lamination UV curable; polyolefin fiber cellulosic lamination

IT **Adhesives**  
(diepoxide/vinyl alc. terpolymer; laminating method and laminated products with improved peel strength and solvent resistance)

IT Lamination  
(laminating method and laminated products with improved peel strength and solvent resistance)

IT Ultraviolet radiation  
(pulsed; laminating method and laminated products with improved peel strength and solvent resistance)

IT Polypropene fibers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(spunbonded web; laminating method and laminated products with improved peel strength and solvent resistance)

IT 25085-98-7, Cyracure UVR 6110 25086-48-0, Ucar VAGH  
RL: TEM (Technical or engineered material use); USES (Uses)  
(**adhesive** component; laminating method and laminated products with improved peel strength and solvent resistance)

IT 25085-53-4, Isotactic polypropylene  
RL: TEM (Technical or engineered material use); USES (Uses)  
(fiber, spunbonded web; laminating method and laminated products with improved peel strength and solvent resistance)

IT 9003-07-0, Polypropylene  
RL: TEM (Technical or engineered material use); USES (Uses)  
(film; laminating method and laminated products with improved peel strength and solvent resistance)

IT 104558-95-4, Cyracure UVI 6990  
RL: CAT (Catalyst use); USES (Uses)  
(laminating method and laminated products with improved peel strength and solvent resistance)

IT 25085-53-4, Isotactic polypropylene  
RL: TEM (Technical or engineered material use); USES (Uses)  
(fiber, spunbonded web; laminating method and laminated products with improved peel strength and solvent resistance)

RN 25085-53-4 HCAPLUS

CN 1-Propene, homopolymer, isotactic (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6

H<sub>3</sub>C-CH=CH<sub>2</sub>

IT 9003-07-0, Polypropylene  
RL: TEM (Technical or engineered material use); USES (Uses)  
(film; laminating method and laminated products with improved peel strength and solvent resistance)

RN 9003-07-0 HCAPLUS

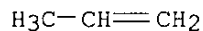
CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 115-07-1

CMF C3 H6

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290



L59 ANSWER 37 OF 43 RAPRA COPYRIGHT 2002 RAPRA  
 AN R:521876 RAPRA FS Rapra Abstracts; Adhesives Abstracts  
 TI YOUR GLOBAL **ADHESIVE** RESOURCE. ADVANCED TECHNOLOGY FOR NONWOVEN  
**ABSORBENT** PRODUCTS.  
 CS National Starch & Chemical Ltd., **Adhesives** Div.  
 SO Beaconsfield, c.1992, pp.6. 12ins. 17/3/94. 6A1  
 PY 1992  
 DT Company Publication  
 LA English  
 AB **Adhesive** solutions from National Starch & **Adhesive**  
 are discussed for applications involving single use products such as  
 incontinence products, feminine hygiene goods and nappies. The company  
 manufactures a broad range of hot melt and emulsion **adhesives**.  
 CC 6A1  
 SC \*QB  
 \*ADAHJ; ADAHM  
 CT **ABSORBENT; ADHESIVE; COMPANY; DATA; DISPOSABLE;**  
**EMULSION; GLOBALISATION; HOT MELT ADHESIVE; HYDROPHILIC;**  
**INCONTINENCE PRODUCT; LOW VISCOSITY; NAPPY; NON-WOVEN; PERSONAL**  
**CARE PRODUCT; PLASTIC; POSITIONING; PRODUCT ANNOUNCEMENT; PROPERTIES;**  
**SURGICAL APPLICATION; TECHNICAL; THERMOPLASTIC; TREND; WATER-BORNE;**  
**WATER-DISPERSIBLE; GLOBALIZATION**  
 SHR **ADHESIVES**, hot melt, emulsion, personal care products  
 SHA **HOT MELT ADHESIVES**, personal care products; **EMULSION**  
**ADHESIVES**, personal care products  
 GT EUROPEAN COMMUNITY; EUROPEAN UNION; UK; WESTERN EUROPE  
 TN CYCOFLEX

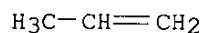
L59 ANSWER 38 OF 43 HCAPLUS COPYRIGHT 2002 ACS  
 AN 1993:104306 HCAPLUS  
 DN 118:104306  
 TI Releasable **adhesive** tape **composites**  
 IN Arakawa, Masaaki  
 PA Nitto Denko Corp., Japan  
 SO Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C09J007-02  
 ICS A61F013-58  
 CC 38-3 (Plastics Fabrication and Uses)  
 Section cross-reference(s): 63  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04213378	A2	19920804	JP 1991-13007	19910109
	JP 3031488	B2	20000410		
PRAI	JP 1990-300491	A1	19901105		

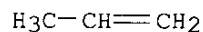
AB The **composites**, useful for disposable **diapers**,  
 clothes, stationery, etc., comprise 2 parts and each part comprises  
 release agents, base sheets, and/or **adhesives**. Thus, a tape  
 prepd. by forming a 50-.mu.m **adhesive** layer of a 70:30 mixt. of  
 butadiene-ethylene-styrene block copolymer and hydrogenated terpene resin  
 on a 40-.mu.m polypropylene film and a 25-.mu.m polyester tape were sep.

- fixed on a **diaper** and pressed together, showing peel strength  
250 g/25 mm.
- ST **diaper** releasable **adhesive** tape **composites**;  
SBS block polymer releasable **adhesive**; hydrogenated terpene  
resin releasable **adhesive**
- IT Acrylic polymers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(**adhesives**, for releasable **adhesive** tape  
**composites**)
- IT Polyesters, uses  
RL: USES (Uses)  
(films, for releasable **adhesive** tape **composites**)
- IT Polypropene fibers, uses  
RL: USES (Uses)  
(**nonwoven** fabrics, for releasable **adhesive** tape  
**composites**)
- IT **Diapers**  
(releasable **adhesive** tape **composites** for)
- IT Siloxanes and Silicones, uses  
RL: USES (Uses)  
(release agents, for releasable **adhesive** tape  
**composites**)
- IT Rubber, butadiene-styrene, uses  
RL: USES (Uses)  
(block, triblock, **adhesives** contg., for releasable  
**adhesive** tape **composites**)
- IT Rubber, synthetic  
RL: USES (Uses)  
(butadiene-ethylene-styrene, block, hydrogenated terpene resin blends,  
for releasable **adhesive** tape **composites**)
- IT Terpenes and Terpenoids, polymers  
RL: USES (Uses)  
(hydrogenated, polymers, butadiene-ethylene-styrene block copolymer  
blends, for releasable **adhesive** tape **composites**)
- IT Rubber, synthetic  
RL: USES (Uses)  
(isoprene-styrene, block, triblock, **adhesives** contg., for  
releasable **adhesive** tape **composites**)
- IT **Adhesive** tapes  
(peelable, **composites** of, for **diapers**)
- IT 25085-53-4  
RL: USES (Uses)  
(fiber, **nonwoven** fabrics of, for releasable **adhesive**  
tape **composites**)
- IT 9003-07-0, Polypropylene  
RL: USES (Uses)  
(films, for releasable **adhesive** tape **composites**)
- IT 9002-88-4, Polyethylene  
RL: USES (Uses)  
(polypropylene blends, films, for releasable **adhesive** tape  
**composites**)
- IT 106107-54-4  
RL: USES (Uses)  
(rubber, block, triblock, **adhesives** contg., for releasable  
**adhesive** tape **composites**)
- IT 110900-80-6  
RL: USES (Uses)  
(rubber, hydrogenated terpene resin blends, for releasable  
**adhesive** tape **composites**)
- IT 105729-79-1

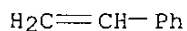
RL: USES (Uses)  
(triblock, rubber, **adhesives** contg., for releasable  
**adhesive** tape **composites**)  
IT 25085-53-4  
RL: USES (Uses)  
(fiber, **nonwoven** fabrics of, for releasable **adhesive**  
tape **composites**)  
RN 25085-53-4 HCAPLUS  
CN 1-Propene, homopolymer, isotactic (9CI) (CA INDEX NAME)  
  
CM 1  
  
CRN 115-07-1  
CMF C3 H6



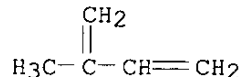
IT 9003-07-0, Polypropylene  
RL: USES (Uses)  
(films, for releasable **adhesive** tape **composites**)  
RN 9003-07-0 HCAPLUS  
CN 1-Propene, homopolymer (9CI) (CA INDEX NAME)  
  
CM 1  
  
CRN 115-07-1  
CMF C3 H6



IT 105729-79-1  
RL: USES (Uses)  
(triblock, rubber, **adhesives** contg., for releasable  
**adhesive** tape **composites**)  
RN 105729-79-1 HCAPLUS  
CN Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene, block (9CI) (CA  
INDEX NAME)  
  
CM 1  
  
CRN 100-42-5  
CMF C8 H8



CM 2  
  
CRN 78-79-5  
CMF C5 H8



L59 ANSWER 39 OF 43 RAPRA COPYRIGHT 2002 RAPRA  
 AN R:406671 RAPRA FS Rapra Abstracts; Adhesives Abstracts  
 TI MELTEX NON-WOVEN.  
 CS MELTEX LTD.  
 SO Tamworth, c.1990, pp.4. 12ins. 20/8/90. 62(11)  
 PY 1990  
 DT Company Publication  
 LA English  
 AB A brief description is given of the non-woven group of Meltex which offers complete solutions for precise application of liquids and powders. Equipment described includes melt metering equipment, glue guns, elastic thread unwinders for disposable nappies, applicators for **absorbent** powders also onto nappies, coating heads, dye applicators for in-line colouring of elastic threads and drum melters.  
 CC 62.11; 06  
 SC \*OP; CB  
 \*ADATW  
 CT **ADHESIVE**; APPLICATOR; COATING; COLOUR; COLOURING; COMMERCIAL INFORMATION; COMPANIES; COMPANY; DATA; DISPENSING GUN; DRUM; DYE; EQUIPMENT; GLUE GUN; **HOT MELT ADHESIVE**; LIQUID; MELTING; METERING; NAPPY; **NON-WOVEN**; PLASTIC; POWDER; PRODUCT ANNOUNCEMENT; TECHNICAL  
 SHR COMPANY INFORMATION, Meltex; FABRICS, non woven  
 SHA APPLICATORS  
 GT EUROPEAN COMMUNITY; UK; WESTERN EUROPE  
 TN FLEXICOLOR

L59 ANSWER 40 OF 43 WPIX (C) 2002 THOMSON DERWENT  
 AN 1989-333775 [46] WPIX  
 DNC C1989-147904  
 TI Polymer bitumen sealing sheets - have layer of mixt. of bitumen with **atactic polypropylene** homo- or copolymer and **isotactic polypropylene**.  
 DC A17 A93 L02 P42 P73  
 IN HAUSHOFER, B; SABAU, P; SCHERP, E; SCHUMACHER, W  
 PA (RUTG) RUETGERSWERKE AG  
 CYC 10  
 PI EP 341379 A 19891115 (198946)\* DE  
 R: AT BE BG DE FR IT NL  
 DE 3815915 A 19891123 (198948)  
 US 5013591 A 19910507 (199121)  
 EP 341379 B1 19921202 (199249) DE 7p D06N005-00  
 R: AT BE DE FR GB IT NL  
 DE 58902854 G 19930114 (199303) D06N005-00  
 CA 1324451 C 19931116 (199401) C08L095-00  
 ADT DE 3815915 A DE 1988-3815915 19880510; US 5013591 A US 1989-348382 19890508; EP 341379 B1 EP 1989-102294 19890210; DE 58902854 G DE 1989-502854 19890210, EP 1989-102294 19890210; CA 1324451 C CA 1989-598405 19890502  
 FDT DE 58902854 G Based on EP 341379  
 PRAI DE 1988-3815915 19880510  
 REP A3...9017; EP 196365; EP 204157; FR 2464138; No-SR.Pub; US 4368228; WO 8808866

IC ICM D06N005-00  
ICS B05D003-02; B05D011-04; B32B007-12; B32B011-02; C08J005-18;  
C08L095-00; C09K003-10

AB EP 341379 A UPAB: 19930923  
Polymer bitumen sealing webs have one covering layer made from a mixt. of bitumen with a penetration between 70-420 1/10 mm and a ring and ball softening point of 20-50 deg C, 5-20 wt% **atactic polypropylene** homo- and/or copolymers, 5-20 wt% **isotactic polypropylene**, pref. with a melt index of 20-40, and opt. additional conventional modifying agents, whereby the outward facing surface of this layer contains crystalline polypropylene in the form of spherulites and has neither a scattered mineral covering nor a film covering.

Pref. the webs are unsupported. Sheets with an **adhesive** backing layer may be laminated to a release film. The sheets may contain an embedded reinforcement of (in)organic fibres in the form of **non-woven**, woven or knitted fabrics, grids, etc. USE/ADVANTAGE - The polymer bitumen sealing webs are compatible with both **adhesive** bitumen and with bituminous cold self **adhesive** materials. No sweating out occurs on the surface of the webs upon storage or after installation and no weakening of overlapped bonded seams occurs after long periods at 70 deg C. The web can be coated on the underside with a layer of blown bitumen to give a heat bondable web, or with a cold self **adhesive** layer. The webs are useful eg for roofing and other building applications.

O/O

FS CPI GMPI

FA AB

MC CPI: A03-C03; A04-G01B; A07-A01A; A12-A05A; A12-A05B2; L02-D10

L59 ANSWER 41 OF 43 WPIX (C) 2002 THOMSON DERWENT

AN 1989-370922 [51] WPIX

CR 1989-353826 [48]

DNC C1989-164295

TI Hot-melt adhesive compsn. contg. amorphous copolymer - comprising propylene with ethylene or butene-1 opt. tackifier and resin.

DC A17 A81 G03

IN MANABE, T; TSURUTANI, I

PA (UBEI) UBE IND LTD

CYC 3

PI AU 8933060 A 19891026 (198951)\* 29p

~~JP 02086676 A 19900327 (199018)~~

~~JP 07026073 B2 19950322 (199516) 5p C09J123-14~~

~~KR 137216 B1 19980424 (200001) C09J123-06~~

ADT AU 8933060 A AU 1989-33060 19890414; JP 02086676 A JP 1988-237346 19880921; JP 07026073 B2 JP 1988-237346 19880921; KR 137216 B1 KR 1989-5101 19890418

~~FDT JP 07026073 B2 Based on JP 02086676~~

PRAI JP 1988-94475 19880419; JP 1988-237346 19880921

IC C09J003-14; C09J123-16

ICM C09J123-06; C09J123-14

ICS C09J003-14; C09J123-16; C09J123-20; C09J201-00

AB AU 8933060 A UPAB: 20000105

Hot-melt adhesive compsn. comprises: (a) 30-100 wt.% amorphous propylene-ethylene random copolymer (I) having an ethylene content of 8-30 wt.% or an amorphous propylene-butene-1 random copolymer (II) having a butene-1 content of 10-60 wt.%, both having a no. ave. mol. wt. of 1,000-20,000; (b) 0-70 wt.% tackifier; and (c) 0-70 wt.% resin.

USE/ADVANTAGE - Compsn. has high adhesion, good low-temp. resistance and good fluidity, enabling easy adhesion to paper, wood, plastics, stone,

gypsum, concrete, metals, etc. The compsn. retains the heat resistance of conventional hotmelt adhesives, causes no peeling and no redn. in strength, at low temps., is odour-free, has no flammability problems, and has consistent qualities in softening pt., melt viscosity, etc. The compsn. does not rely on **atactic polypropylene** by-prod. in **isotactic polypropylene** prodn., which is more difficult to obtain as catalysts for **isotactic polypropylene** improve. Useful for bonding outer and inner plastics layers of disposable paper **diapers**, as a laminating adhesive for water-repellent paper/paper board, or as a sealant, etc.

0/0

Dwg.0/0

FS

CPI

FA

AB

MC

CPI: A04-G06A; A12-A05B2; G03-B02D3

L59 ANSWER 42 OF 43 WPIX (C) 2002 THOMSON DERWENT

AN 1987-032213 [05] WPIX

DNN N1987-024324 DNC C1987-013571

TI Heat-sensitive recording type release paper - contg. oil-**absorbing** polymer in base material or in water-soluble polymer-based barrier layer.

DC A89 E12 E14 E24 G05 P75

PA (RICO) RICOH KK

CYC 1

PI JP 61287785 A 19861218 (198705)\* 6p

ADT JP 61287785 A JP 1985-131073 19850617

PRAI JP 1985-131073 19850617

IC B41M005-18

AB JP 61287785 A UPAB: 19930922

Paper has (A) heat-sensitive colouring layer contg. leuco dye and colour developing agent on the front side of a base material, and has (B) **adhesive** layer and (C) releasing base paper on the back side of the base material in this order. Oil **absorbing** polymer is contained in the base material or in a barrier layer which comprises water soluble polymer and is formed on heat-sensitive colouring layer or on the back side of the base material.

Pref. oil **absorbing** polymers are e.g., **atactic polypropylene, isotactic polypropylene**, polystyrene, polyurethane, etc.. Water soluble polymers are, e.g., PVA, HEC, methyl cellulose, CMC, starch, casein, sodium alginate, PVP, acrylamide, etc..

USE/ADVANTAGE - The paper is resistant to fading by oil or plasticiser. It is used for price tags, name plates, seals, labels, etc..

0/0

FS CPI GMPI

FA AB

MC CPI: A12-W07F; E06-A02B; E06-A03; E26-B; G05-F01

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AN 1977-01192Y [01] WPIX

TI Press formable **nonwoven** fibres prodn. - from a web contg. a fibre having thermal shrinking and hot melt **adhesive** properties.

DC A18 A23 A35 F04

PA (DYNI-N) DYNICK KK

CYC 1

PI JP 51133582 A 19761119 (197701)\*

JP 53031977 B 19780905 (197839)

PRAI JP 1975-54302 19750515

IC D04H001-50

AB JP 51133582 A UPAB: 19930901



Process for prodn. of a press-formable **nonwoven** fabric, is new. A fibre web is prepd. from (a) A-fibre which has thermally shrinking property and hot-melt-**adhesive** property (e.g., side-by-side conjugate fibre composed of **atactic-** and **isotactic polypropylene**, undrawn polyester fibre, PVC fibre, etc.) or from (a) A-fibre and (b) B-fibre which is non-shrinking and non-**adhesive**, or/and (c) C-fibre which is non-shrinking and has a melting point sufficiently higher than that of A-fibre, by a dry process (e.g. using card-web cross-folder). The web is needle-punched to effect felting of the constituent fibres. The needle-punched web is heat-treated at a temp. higher than the temp. at which A-fibre begins to shrink, but lower than the temp. at which A-fibre is completely melted, to effect thermal shrinkage of the web. The web is then heat-treated at a temp. higher than m.pt. of A-fibre to bind the constituent fibres together.

The resulting **nonwoven** fabric permits deep-drawing or press-forming to obtain complicated shapes. The press-formed prods. have good form stability and soft touch.

FS CPI  
FA AB  
MC CPI: A11-C05A; A12-S05G; F02-C02B1; F02-C02D